

D.T4.3.2.

Training of PAs in the five project countries for nearing them to REEF 2W – REPORT

-combined with event D.C.7.2. Workshops for policy makers, municipalities and regional representatives

Made by UCT on 6/12/2019



A) DATES AND GENERAL INFORMATION

The REEF 2W project pursues the goal to develop and implement tools to identify the most appropriate technologies and processes by linking the relevant public infrastructures responsible for the management of municipal solid waste with wastewater treatment plants (WWTPs) and optimize their in-put mix and their energy outputs.

The main goal of the training was to acquaint the participants with the project and to bring them closer to the proposed solution of the project so that they were able to transmit the educated information to PAs. It was jointly organized by countries participating in the cross-border Interreg Central Europe program. The training courses were organized in each of the five participating countries as part of the activity A.T4.3 (D.T4.3.2.). in the Czech Republic was held on 4th December 2019 in Národní technická knihovna, Prague. It was also combined with deliverable D.C.7.2.

B) LEARNING METHODOLOGY & LESSONS ORGANIZATION

The second round of training courses was an opportunity to exchange information, views, and experiences between tool developers and their potential users, in addition to familiarizing them with the project outputs so far. For this reason, the course methodology was aimed at promoting and developing dialogue between trainers and trainees. Special attention was paid to a practical demonstration of the use of developed tools. The presentation of the tool was accompanied by a commentary with instructions on how to use the tool in Excel, followed by a discussion and a practical demonstration of how to use the tool.

Two days of training was planned in the original grant application form, but the project partners opted for a one-day training. Especially because it would be difficult for workers from partner companies to leave their workplace for more than a day. In this way, the participation of other target groups will also be facilitated.

The subject presented in the course were as follows:

- a) A general overview of the REEF 2W project and its main objectives. Presentation of possible identified obstacles in terms of legislation and funding opportunities in the implementation and application of REEF 2W outputs for the region.
- b) Introduction to the methodology related to the feasibility study within the selected pilot facilities, which includes the following 4 steps: i) evaluation of the technical solutions for the treatment plant; (ii) site analysis and assessment of the possibility of building public-private partnerships; (iii) reviewing possible financial resources; (iv) ISA evaluation (Integrated Sustainability Assessment).
- c) Introduction to ISA methodology. The methodology considers a set of environmental, economic and social parameters to assess the sustainability of new or existing wastewater treatment plants using multi-criteria decision analysis.
- d) Presentation of the Tool for checking the soundness of REEF 2W solutions in terms of energy efficiency and renewable energy production (software tool n. 1). The tool will

be presented in both the paper version and the electronic version for data acquisition and calculation of EE-RES benefits

- e) Presentation of the Tool for evaluating the local compatibility of REEF 2W plants and the available surroundings within the urban context (software tool 2). This tool deals with criteria related to the possibilities of connection of WWTP to its surroundings and environmental and social aspects.
- f) A final discussion with the trainers on the overall impression of the REEF 2W project, sharing experiences and the possibility of testing the tool by participants. In addition, participants will be asked to provide feedback on the effectiveness and usability of the software tools, along with comments or suggestions for potential improvements.

Program and timetable:

Time:	Theme:	Speakers/Contributors/Trainers
9:30-10:00	Registrace a přivítání účastníků	Jeníček P., VŠCHT Praha
10:00-11:00	REEF 2W – seznámení s projektem, náplň a cíle projektu	Jeníček P., VŠCHT Praha
11:00-11:30	Smart řešení pro kalové hospodářství	Beneš O., Veolie Česká republika, a.s.
11:30-12:00	Diskuze	
12:00-13:00	Obědová pauza	
13:00-13:30	Seznámení s metodikou ISA a studií proveditelnosti umístění pilotní biometanizační jednotky na ÚČOV Praha	Beneš O., Veolie Česká republika, a.s.
13:30-14:15	Prezentace nástroje pro zhodnocení energetické účinnosti a využití obnovitelné energie	Varga Z, VŠCHT Praha, Veolie Česká republika, a.s.
14:15-15:00	Prezentace nástroje pro zhodnocení lokální kompatibility	Pokorná D., VŠCHT Praha
15:00-15:30	Závěrečná diskuze	

C) LIST OF PARTICIPANTS

Present were 18 people according to the attendance list: 2 trainers and 2 speakers, 14 Trainees from several utility companies, municipalities or institutes connected to them. But the workshop was open and some of the lectures were attended even by people from the surrounding events.

	Name	Role	City / Municipality / Organization
1	Veronika Jarolímová	Trainee	Ministry of the Environment of the Czech Republic
2	Vladimir Todt	Trainee	Pražské vodovody a kanalizace , a.s.
3	Lada Uskobová	Trainee	Czech Biogas Association
4	Jiří Čejka	Trainee	Vodohospodářský podnik a.s., Plzeň
5	Petr Čulík	Trainee	Vodohospodářský podnik a.s., Plzeň
6	Josef Horejš	Trainee	K&K Technology a.s.
7	Jan Štambaský	Trainee	Czech Biogas Association
8	Václav Kutil	Trainee	K&K Technology a.s.
9	Ladislava Matějů	Trainee	National Institute of Public Health (SZÚ)
10	Zdislava Drahošová	Trainee	National Institute of Public Health (SZÚ)
11	Oto Zwettler	Trainee	Arko Technology, a.s.
12	Michal Dohányos	Trainee	OSVČ
13	Miroslav Kos	Trainee	SMP CZ
14	Karel Hartig	Trainee	SWECO
15	Pavel Jeníček	Speaker	UCT Prague
16	Dana Pokorná	Speaker	UCT Prague
17	Ondřej Beneš	Speaker	Veolia Czech Republic
18	Zdeněk Varga	Speaker	Veolia Czech Republic

List of participants

Training of PAs for nearing them to REEF 2W
December 4 2019 @ UCT, Prague, Czech Republic

Name	Organization	Signature
Ing. Veronika JAVOROVSKÁ	H2P - DDM	[Signature]
Ing. V. KADLÍČKA	PVK a.s.	[Signature]
Ing. Ladislav URSKOVSKÝ	ČZBA	[Signature]
Jiří JELKA	VP a.s.	[Signature]
Petr ČUDIL	VP a.s.	[Signature]
JOSEF HOREJŠ	KK TECHNOLOGY	[Signature]
Miroslav Běláček	OSV	[Signature]
KATIL	KK TECHNOLOGY	[Signature]
JAN STANBAŇ	Česká energetická společnost	[Signature]
Koučková Kateřina	SZU	[Signature]
Zdeněk Drahošová	SZU	[Signature]
OTO ZWISLER	BRKO TECHNOLOGY	[Signature]
Pavel JENÍČEK	VŠCHT	[Signature]
Dana POKORNÁ	VŠCHT Praha	[Signature]
ZDENEK VARGA	VEOLIA	[Signature]
ONDŘEK BENEŠ	VEOLIA	[Signature]

List of participants

Workshop for policy makers, municipalities and regional representatives
December 4 2019 @ UCT, Prague, Czech Republic

Name	Organization	Signature
Ing. Veronika JAVOROVSKÁ	H2P - DDM	[Signature]
Ing. Ladislav URSKOVSKÝ	ČZBA	[Signature]
Ing. V. KADLÍČKA	PVK a.s.	[Signature]
Jiří JELKA	VP a.s.	[Signature]
Petr ČUDIL	VP a.s.	[Signature]
JOSEF HOREJŠ	KK TECHNOLOGY	[Signature]
Miroslav Běláček	OSV	[Signature]
KATIL	KK TECHNOLOGY	[Signature]
JAN STANBAŇ	Česká energetická společnost	[Signature]
Koučková Kateřina	SZU	[Signature]
Zdeněk Drahošová	SZU	[Signature]
Miroslav Běláček	OSV	[Signature]
KATIL	KK TECHNOLOGY	[Signature]
OTO ZWISLER	BRKO TECHNOLOGY	[Signature]
Pavel JENÍČEK	VŠCHT	[Signature]
ZDENEK VARGA	VEOLIA	[Signature]
DANA POKORNÁ	VŠCHT Praha	[Signature]
ONDŘEK BENEŠ	VEOLIA	[Signature]

D) SUMMARY

The training was divided into morning and afternoon parts according to the schedule. Information materials about the project were available to all participants at the entrance to the lecture hall. In the morning part of the course, the task was to familiarize participants with the REEF 2W project in general and to introduce possible solutions and technologies to increase energy efficiency and renewable energy production. The afternoon session was more focused on demonstrating the ISA methodology on a case study in Prague and the developed Tool, which stakeholders could see and test in detail after each section. Training went smoothly according to the timetable. During the discussions, the participants expressed interest in the project objectives and questioned the availability of the Tool developed within the project. We informed them that the tool could be distributed to interested parties when its final testing was completed.

E) PHOTO DOCUMENTATION



