

TRAININGS OF PAS IN THE FIVE PROJECT COUNTRIES FOR NEARING THEM TO REEF 2W

Conducted By KWB, adelphi

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KOMPETENZZENTRUM
Wasser Berlin



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Output factsheet: Trainings

Version 1

Project index number and acronym	REEF 2W
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Summary description of the implemented training measure(s), explaining the specific goal(s) and target groups

The training followed two main objectives: The focus was on the substantiation of the regional strategy, which aims to provide the Berlin government a set of potential actions that support the Berliner Wasserbetriebe (BWB) in accelerating the implementation of the REEF 2W solutions and, in this sense, to maximize the energy potential of Berlin’s wastewater treatment plants (WWTPs). The second objective of the training was, to give an overview of the project results, particularly of the feasibility study (DT.2.3.2). In the feasibility study, the potential of the technology upgrades for energy optimization at the Schönerlinde WWTP is investigated and estimated using the REEF 2W tool. Only the technology solutions that turned out to be most suitable in the feasibility study are subject of the regional strategy. Target groups were professionals working on the management and planning of plants, well acquainted of wastewater treatment issues. The pool of participants (excluding the organizers) comprised different backgrounds: representatives from the Berlin Senate, the Berlin Water Utility (BWB) and the Federal Environment Agency as well as representative from Berliner Stadtwerke, a public provider of renewable energy and agency to promote them in the city, provided an energy perspective. Practical experience in engaging with wastewater treatment utilities was provided through Berliner Wasserbetriebe, Germany’s largest water

service provider, which runs and oversees all water and wastewater utilities in the realm of Berlin. Kompetenzzentrum Wasser Berlin is a long-standing partner to both of them, and has led various joint applied research projects on the topic from over recent years. Adelphi has engaged with the water-energy nexus topics in various projects. These workshops aimed to transfer the REEF 2W know-how to enterprises, local authorities and institutions in the wastewater sector.

NUTS region(s) where training(s) have been conducted (relevant NUTS level)

The training was carried out in the premises of Senatsverwaltung für Umwelt, Verkehr und Klimaschutz.
Am Köllnischen Park 3, 10179 Berlin

Country (NUTS 1) DE

Region (NUTS 2) DE30, Berlin

Sub-region (NUTS 3) DE300, Berlin

Expected impact and benefits of the trainings for the concerned territories and target groups

The focus of the workshop was mainly on the regional strategy in Berlin. this strategy focuses on several technologies that comprise the focus in the REEF 2W project at the WWTP in Schönerlinde. While several of the WWTPs that treat Berlin's wastewater are located in Brandenburg, subject to the analysis are only actions carried out by the Berlin government.

The strategy helps to foster the achievement of targets relating to climate change mitigation and the energy transition in different strategic and planning documents by the Berlin Senate such as the BEK 2030.

Through the resulting improved cooperation, the exchange of new findings from cutting-edge research projects will be accelerated and thus awareness of the energy potential in the wastewater sector towards politicians increased. The different involved departments of the Senate responsible for climate protection and wastewater treatment will be able to extent their technical knowledge on energy-related aspects in the wastewater sector. This information is usually not easily accessible to them. At the same time, cooperation and planning across departments of the Senate and sectors will be improved. By involving BWB and other stakeholders in the review processes of key Senate planning documents, an alignment of plans to the interests of affected sectors will be enabled.

Moreover, the strategy offers insights on how energy-related actions concerning the wastewater sector can be strengthened to reach the climate targets of Berlin in time or even faster.

Sustainability of the training(s) and developed training material(s) and their transferability to other territories and stakeholders

The workshop was hosted to discuss the regional strategy for Berlin with relevant local actors, such as representatives from the Berlin Senate, the Berlin Water Utility (BWB) and the Federal Environment Agency. The training format carried out in Berlin is transferable to other locations. Respecting the external conditions, it may have to be adapted, for example to the local knowledge and capacities of the local water utility, to the state of the art implemented as well as to existing planning documents supporting wastewater-to-energy innovations. These workshops aimed to transfer the REEF 2W know-how to enterprises, local authorities and institutions in the wastewater sector. The project team expects that the results communicated to partners, utilities and other participants during the training courses will be further disseminated through personal contacts. As part of the REEF 2W project, the project partners for the Berlin context and the Berlin Senate signed a joint declaration of intent for further cooperation on the implementation of REEF 2W solution concepts particularly with regard to the recommended and jointly identified actions within the strategy formation.

Lessons learned from the development and implementation of training measures and added value of transnational cooperation

The following lessons learned could be derived from the project activities conducted in Berlin:

- Cooperation and exchange become particularly critical, as local conditions differ between the countries. This proved to be particularly important when a common tool is developed.
- It quickly became apparent that the different sectors are driven by different interests that conflict with each other (water quality vs. water price vs. energy consumption of water treatment and disposal).
- To initiate a strategy for governmental institutions, it is necessary to initiate contact. Governmental institutions are usually busy and hard to convince for spending time on matters that bring no immediate payback. The same is valid for utility operators (in this case the BWB).
- The REEF 2W solution concepts benefit from the interaction and integration of different sectors (waste sector, wastewater sector, energy sector etc.) and infrastructures (gas, power and heat grid). Thus, in order to reach the set climate targets by Berlin, involvement of the different departments of the Berlin Senate with different disciplinary foci as well as other actors from different sectors (BWB, Stadtwerke) is crucial.

References to relevant deliverables and web-links If applicable, pictures or images to be provided as annex

The Development of the Regional Strategy (DT2.4.2) is an important element of the project REEF 2W, closely relating to other project deliverables. The most important ones are: The Feasibility study for the Berlin pilot site Schönerlinde (D.T.2.3.2) and the Position paper (D.T. 2.5.3). The feasibility study (DT2.3.2) is an integral part of the project REEF2W. Document describing general framework conditions for ISA (DT3.1.1) Validated ISA procedure to be used in REEF 2W feasibility study (DT3.1.2). This document was provided with refer to Trainings of PAs in the five project countries for nearing them to REEF 2W (DT 4.3.2)