

O.T4.2. TRAININGS CURRICULA FOR NEARING PUBLIC ADMINISTRATIONS TO REEF 2W

Conducted By adelphi, KWB

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Italian National Agency for New Technologies,
Energy and Sustainable Economic Development



Unioncamere
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Reinholdungsverband Trattnachtal
Biogas Trattnachtal GmbH

KOMPETENZZENTRUM
Wasser Berlin

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Summary description of the key features of the tool (developed and/or implemented)

This deliverable is based on the knowledge gained during the preparation of the training curriculum for the training of the PAs in Berlin, one of the five project study sites, for nearing them to REEF 2W implementation (DT 4.3.1). The training conducted in Berlin were organised and conducted by representatives from KWB and adelphi, a water research institute and independent think tank, both part of the REEF 2W consortium. The main objective of DT4.3.1 is to provide a training curriculum for nearing public administrations to REEF 2W implementations. As a concrete result, strategic actions are jointly developed to guide the regional authority in supporting local water and wastewater utilities (here: Berliner Wasserbetriebe (BWB)) in the implementation of wastewater-to-energy technologies. The training curriculum was developed specifically for the Berlin location, but can be easily adapted for other locations with similar conditions.

For Berlin, the trainings were designed for a duration of half a day, during which the participants were guided smoothly through several stations towards the joint creation of strategic actions. As a first step, information on innovative wastewater-to-energy technologies was presented to transfer REEF 2W know-how to different actors in the water and energy sector. The potential of the technology upgrades considered in REEF 2W for energy optimization was theoretically evaluated and demonstrated in a second step by means of a local case study using the REEF 2W tool (here: Schönerlinde WWTP, DT3.1.2 Feasibility study). Rounding off, the organisers of the trainings presented in a fourth step first ideas for action based on a gaps and needs analysis. Building on the raised awareness of the training attendees on the theoretical possibilities in Berlin, the trainings were concluded with a fifth step, by co-developing solution concepts on how the presented potentials for Berlin can be optimally tapped. In a moderated discussion round, the ideas for action were jointly substantiated with the participants into a sound regional strategy.

For a successful execution of the training towards the co-development of an effective strategy, the wise selection of the participants is particularly important. The more differentiated the invited and involved institutions are,

the more effective and sustainable the result. Representatives from the following institutions participated in the training in Berlin: from the Berlin Water Utility (BWB), as professionals working on the management and planning of wastewater treatment plants, well acquainted of wastewater treatment issues; from the Berlin Senate, responsible for the implementation, monitoring and extension of the Berlin Energy and Climate Protection Programme; from the Federal Environment Agency as well as representatives from Berliner Stadtwerke, a public provider of renewable energy providing an energy perspective.

At the end of the training, the participants were given information material on wastewater-to-energy technology investigated in REEF 2W to pass on the knowledge to colleagues and other interested institutions. Furthermore, the results, which were jointly developed during the training, were handed out to the participants in the form of a position paper. This paper was particularly requested by the SenUVK in order to support them in better communicating the training results to other departments within the Senate and to use the paper as a basis for discussion when designing new planning documents for climate action.

NUTS region(s) where the tool has been developed and/or implemented (relevant NUTS level)

The training was carried out in the premises of the Senate Department for the Environment, Transport and Climate Protection.

Brückenstraße 6, 10179 Berlin

Country (NUTS 1) DE

Region (NUTS 2) DE30, Berlin

Sub-region (NUTS 3) DE300, Berlin

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

The developed training curriculum passing 5 steps, enables to build and improve local capacities on waste-to-energy technologies and to increase awareness on the energy potential of the wastewater sector towards politicians by exchanging new findings from cutting-edge research projects. Building on the capacity created and awareness raised, the training curriculum supports the development of a sound and sustainable set of actions by using a multi-stakeholder approach involving various actors across sectors. The set of actions, compiled into a position paper, will support the senate in introducing wastewater-to-energy measures into future planning documents of Berlin. One concrete programme that is soon to be revised and expanded by the Berlin Senate is the Berlin Climate and Energy Programme. The implementation of wastewater-to-energy concepts in Berlin and beyond is characterized by a conflict of interests between the sectors (water quality vs. water price vs. energy consumption of water treatment). The implementation of such trainings is a first step to promote cooperation and communication between the water and energy sector and decision makers on the long term and thus to bring forward solutions. During the training, the participants agreed to convene a regular meeting concept to discuss innovations in the water-energy-nexus and to boost their implementation.

Sustainability of the tool and its transferability to other territories and stakeholders

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.

With regard to the training materials and results, the REEF 2W partners 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 substantiation of the regional strategy.

Lessons learned from the development/implementation process of the tool and added value of transnational cooperation

- Due to the different situations in the five project countries (different interests and state of knowledge of the local water utility), it turned out to be useful to adapt the training curriculum locally and thus offer different formats.
- In order to conduct successful trainings with sustainable and impactful results (here position paper comprising a set of strategic actions) the involvement and interaction of different actors across sectors (waste sector, wastewater sector, energy sector etc.) is essential.
- 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). For the development of sustainable solutions, it is especially important to understand these problems and to present and prepare the training material/information in a smart way, so that all participants feel involved and see the importance of an agreement.

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

The development of the training curriculum for the Berlin case study was based on the results elaborated in several deliverables, which were disseminated, discussed and reused during the training. This includes the regional strategy (DT2.4.2), the feasibility study (D.T.2.3.2), in which the REEF 2W tool is applied to the Schönerlinde wastewater treatment plant.