

O.T4.4. OUTPUT FACHSHEET

Agreements to regulate the assistance to PAs in implementing a complete feasibility study

Conducted By REGEA

08/2020



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



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Reinholdungsverband Trattnachtal
Biogas Trattnachtal GmbH

KOMPETENZZENTRUM
Wasser Berlin

TEMPLATE

Output factsheet: Tools

Version 2

Project index number and acronym	CE946; REEF 2W
Lead partner	ENEA
Output number and title	O.T4.4. - Agreements to regulate the assistance to PAs in implementing a complete feasibility study
Responsible partner (PP name and number)	REGEA (PP10)
Project website	https://www.interreg-central.eu/Content.Node/REEF-2W.html
Delivery date	08.2020.

Summary description of the key features of the tool (developed and/or implemented) and of its transnational added value

PP1, PP4, PP6, PP8, PP10 were involved in pre-assessing total 15 PAs for choosing a potential WWTPs for applying REEF 2W solutions in order to realize 3 additional feasibility studies. Agreement is signed with chosen PAs and their representatives that is regulating the assistance activity by a qualified consultant belonging to the register with the involvement of one or more representatives of the beneficiary PA organization. In the scope of deliverable D.T4.3.3. in total 15 WWTPs were examined in more details in order to check possibility of implementing REEF 2W solutions. For accomplishing related tasks and goals, mentioned PPs contacted several WWTP operating companies in their countries to collect data about WWTPs for the pre-assessment. After analysing and discussing the results, four WWTPs were chosen as the one for which Feasibility Study was done (one in Germany, Czech Republic, Austria and Croatia). The purpose of this deliverable is to analyse the energy efficiency and the potential to produce renewable energy in mentioned WWTPs. Implementing the first part of the feasibility will allow to understand how much energy the WWTPs currently use. Furthermore, it will provide a quantitative understanding about the potential to increase energy outputs. In the (fictive) technological upgrades defined for each WWTP, these include measures to optimise existing processes and to install new technologies that produce renewable energy.

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

NUTS regions concerned: Germany: DE9/DE91/DE911, Czech Republic: CZ0/CZ07/CZ071, Austria: AT1/AT12, AT2/AT22; Croatia: HR0/HR04/HR04D

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

The Agreements and Feasibility Studies were designed in order to achieve the following impact and benefits:

1. to provide an overview on the REEF 2W project and the methodology developed,
2. to raise awareness and potentials of REEF 2W solutions implementation in Central Europe
3. to acknowledge energy potential in chosen 15 WWTPs
4. to join energy, wastewater and solid waste sectors in subordinate spatial context in order to gain more synergy in harnessing potentials of renewable energy sources
5. broader use of renewable energy sources leading to a more local and independent energy supply

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

Feasibility studies made for each WWTP were presented upon their finalization to utility companies that are in charge for their operation. In accordance with this experience and lessons learnt there is obvious potential of transferability to other WWTPs that are interested in assessing potential of applying REEF 2W solutions throughout Central Europe. The chosen methodology and format of deliverables proved to be readable and understandable for stakeholders. Lessons from trainings of PAs served well as help in fulfilling tasks regarding this output. Feasibility studies and their results were presented to operators of WWTPs. Value of transnational cooperation in this case was ability to evaluate and compare chosen WWTPs in various countries and learn from experience and context of each.

References to relevant deliverables and web-links

If applicable, pictures or images to be provided as annex

Relevant deliverables are: D.T4.3.3. Pre-assessment for evaluating the suitability of 15 2W plants to become REEF 2W, D.T4.3.4. Agreements to regulate the assistance to PAs in implementing a complete feasibility study, D.T4.3.5. Additional 3 feasibility studies on behalf of three new PA