

Template/Instructions for D.T4.1.2.

## ANALYSIS OF EXPECTATIONS

in term of training and direct assistance

Made by REGEA on 18/06/2019

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## ANALYSIS OF EXPECTATIONS (DOCUMENT)

### A) METHODOLOGY

The analysis of feedback is essential for determining what the expectations of participants from the workshop. The expectations help to improve the effectiveness of the workshop.

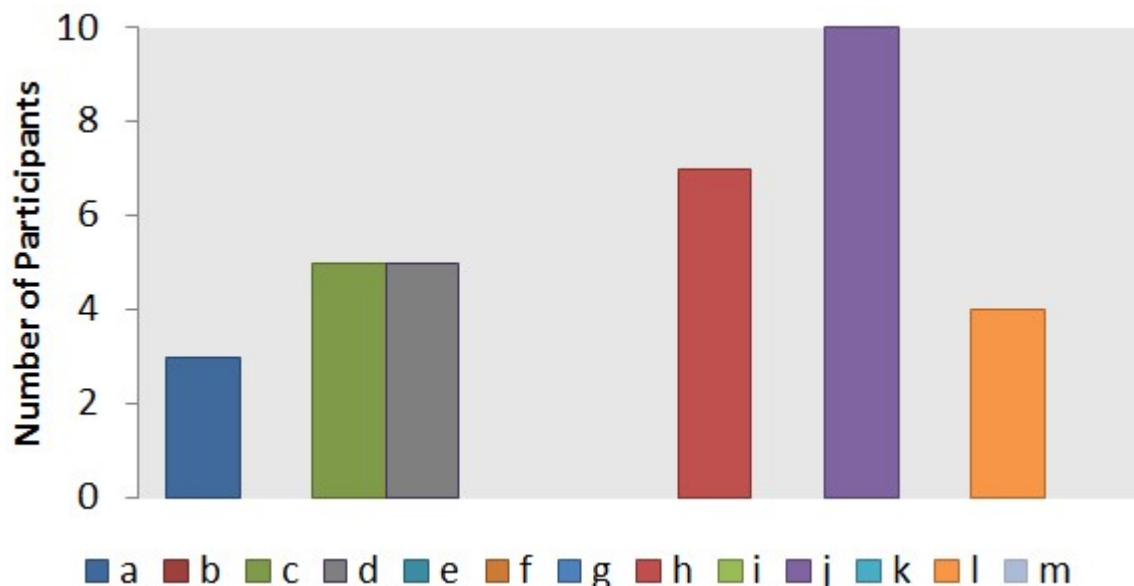
KWB team used the following approach to collect feedback to the workshop from public administration and operators:

- Preparation of a list of participants (municipalities, operators and journalists)
- Sending the first mail asking if they are interested in a workshop
- Telephone call and personal interviews for getting feedback

The feedback includes the prepared questions from REGA. This questionnaire was helpful and included the main expectations from the REEF 2W project as well as upcoming workshop.

### B) RESULTS

Ten participants were interviewed and the result of questionnaire is shown in the following figure (asked questions can be find in the annex).



All participants agreed that the validity and effectiveness of REEF 2W tool (j) are an essential part of the workshop, followed by question (h) about the improvement of technologies and processes. For all interviewee, the REEF 2W tool is an important part of the project and must be validated with real data.

Besides, it was important for 50% of respondents that both topics (c) and (d) (*maximizing renewable energy production and diversifying energy outputs to manage different forms of energy and sectors*) are Part of the workshop.

Finally some participants were interested in the energy efficiency (questions “a” and “l”) as a part of the upcoming workshop. All other subjects were not selected by the respondents, as they are not applicable in Germany (f) or these are old topics that have been investigated before.

Additionally, many participants (especially Berlin public administrations) were very interested in discussion about regional strategies which was not part of the questionnaire.

### **C) CONCLUSION**

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The questionnaire was very useful to identify the expectations of participants for the workshop. The respondents also share their opinions on what other subjects should be included in the agenda. Some topics were favored by all participants such as validated version of REEF 2W tool. Additionally, the respondents would like the topic “regional strategies” to be part of the workshop.

According to the evaluation of expectations, the REEF 2W tool and regional strategies are two main topics preferred by the respondents in Germany.

### **D) Annex**

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- a) Integration and processes optimization of wastewater treatment plants and municipal waste management systems.*
- b) Sharing knowledge and competences for conceiving WWTP as plants generating renewable energy for own needs and even more (WWTP renewable energy positive)*
- c) Studying and developing models of WWTP maximizing renewable energy production through processes compatible to different input biomass types.*
- d) Studying and developing models of WWTP diversifying energy outputs to manage different forms of energy and sectors (electricity, heat, bio-methane, hydrogen)*
- e) Modelling WWTP taking into account internal processes integration and technology hybridization to obtain relevant energy savings.*
- f) Modification of WWTP to accept organic fraction of urban waste, recovering more energy, optimizing water cleaning process and stabilizing treatment costs;*
- g) Revamping of the sludge line of WWTP to receive the organic fraction of urban waste, mixed with public green waste, in order to improve biogas, to be turned in bio-methane and feed existing grids;*
- h) Improvement of technologies and processes, e.g. implementation of a pre-treatment in the sludge process, aimed at generating a mix of energy outputs (biogas, electricity, excess of heat to be used for drying sludge, bio-methane through the application of new cleaning technologies);*
- i) Applying additional energy efficiency/energy production models from renewable sources such as solar PV systems or wind turbines on existing WWTPs sites.*

- j) Demonstration of the validity and effectiveness of models*
- k) Overcoming differences in the legal and administrative constraints between waste water treatment and organic solid waste treatment and removing barriers standing in the way of implementation of mentioned models*
- l) Impact on local community: making these energy consuming plants not only more efficient or self-sustainable, but also producers of surplus of renewable energy, preferably to be used in local territories becoming key enablers for virtuous low-carbon local communities.*
- m) Exchange of information and knowledge between countries where an integrated approach is still at the beginning (i.e. Croatia, Czech Republic) and other countries where experiences in this field are instead more advanced, and where some good practices already exist (i.e. Italy, Austria, Germany)*