

TOR Reference No.: 2017/10	Author(s): Geneve Farabegoli
Version: 2	Date: November 2016
TERMS OF REFERENCE FOR WORK UNDER THE AUSPICES OF IMPEL	

1. Work type and title:

Introducing an integrated approach for water saving and reuse

1.1 Identify which Expert Team this needs to go to for initial consideration	
Industry	<input type="checkbox"/>
Waste and TFS	<input type="checkbox"/>
Water and land	<input checked="" type="checkbox"/>
Nature protection	<input type="checkbox"/>
Cross-cutting – tools and approaches -	<input type="checkbox"/>
1.2 Type of work you need funding for	
Exchange visits	<input type="checkbox"/>
Peer reviews (e.g. IRI)	<input type="checkbox"/>
Conference	<input checked="" type="checkbox"/>
Development of tools/guidance	<input checked="" type="checkbox"/>
Comparison studies	<input checked="" type="checkbox"/>
Assessing legislation (checklist)	<input type="checkbox"/>
Other (please describe):	<input type="checkbox"/>
1.3 Full name of work (enough to fully describe what the work area is)	
Sharing good practices in industrial water treatment and reuse implementing multiple EU requirements	
1.4 Abbreviated name of work or project	
Water saving& reuse	

2. Outline business case (why this piece of work?)

2.1 Name the legislative driver(s) where they exist (name the Directive, Regulation, etc.)	
Water Framework Directive (WFD), Directives on Nitrates, Urban Wastewater Treatment Directive, Industrial Emissions Directive (IED)	
2.2 Link to IMPEL MASP priority work areas	
<ol style="list-style-type: none"> 1. Assist members to implement new legislation 2. Build capacity in member organisations through the IMPEL Review Initiatives 3. Work on 'problem areas' of implementation identified by IMPEL and the European Commission 	<input checked="" type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/>
2.3 Why is this work needed? (background, motivations, aims, etc.)	
<p>More than 15 years after the emanation of several major Directives, including the Water Framework Directive (WFD), Directives on Nitrates, Urban Wastewater Treatment Directive, as well as the Integrated Pollution Prevention and Control Directive (IPPC) now replaced by the Industrial Emissions Directive, their objectives remain to be fully achieved in many Member States. In particular the implementation of EU legislation on water and land has been identified as one of the top challenges in recent IMPEL research because of some problems at several levels such as: the transposition of EU legislation into national laws; the setting of environmental objectives and plans in Member States; the enforcement of the requirements, for example through permitting and inspection regimes.</p> <p>The objective of this project is to identify, both from the regulatory that technological point of view, how the water resource is managed today in the industry sector subject to the Integrated Environmental Permitting (IEP) regulation.</p> <p>The main aim of the project is to compare and share among the IMPEL members the implementation of EU legislation relating to water resources management and protection in industrial installations and activities. New approaches for reducing fresh water consumption and over-abstraction of water are to be identified, enhancing water reuse through process analysis, water balance and utilities optimization.</p> <p>This project is also focused on the implementation of innovative technologies for industrial water treatment able to provide energy saving, sludge production minimization and re-use of treated wastewaters, allowing to respect the required discharge limits.</p>	
2.4 Desired outcome of the work (what do you want to achieve? What will be better / done differently as a result of this project?)	
<p>A survey of activities on problems and best practices in industrial water treatment and reuse area will be carried out by IMPEL members. Several case studies/experiences will be presented and common findings will be shared.</p> <p>The outcomes of the activities will be delivered through the development of guidance documents and manuals, meeting, conferences and technical workshops.</p>	
2.5 Does this project link to any previous or current IMPEL projects? (state which projects and how they are related)	
No	

3. Structure of the proposed activity

<p>3.1 Describe the activities of the proposal (what are you going to do and how?)</p> <ul style="list-style-type: none"> ○ Survey made by the use of a questionnaire ○ 1 project meeting to discuss questionnaire results ○ New approach identification ○ Draft guidance document ○ 1 project meeting to review draft guidance ○ Final guidance document ○ Presentation at the final workshop
<p>3.2 Describe the products of the proposal (what are you going to produce in terms of output / outcome?)</p> <p>Final guidance document</p>
<p>3.3 Describe the milestones of this proposal (how will you know if you are on track to complete the work on time?)</p> <p>2* Project meeting Interim reports Final guidance document Final workshop</p>
<p>3.4 Risks (what are the potential risks for this project and what actions will be put in place to mitigate these?)</p> <p>Low risk project</p>

4. Organisation of the work

<p>4.1 Lead (who will lead the work: name, organisation and country)</p> <p>Geneve FARABEGOLI - Italian National Institute for Environmental Protection and Research, ISPRA - Italy</p>
<p>4.2 Project team (who will take part: name, organisation and country)</p> <p>Team leader and other participants (contacts already established with Netherlands): Albert Avellaneda Bargués - Generalitat de Catalunya, Spain Anabela Rebelo APA – Portuguese Environmental Agency State Environmental Inspectorate, Republic of Macedonia National Environmental Guard, Romania</p>
<p>4.3 Other IMPEL participants (name, organisation and country)</p> <p>Organizations and individuals involved in environmental permitting, monitoring, compliance promotion and assessment, enforcement action.</p>
<p>4.4. Other non-IMPEL participants (name, organisation and country)</p> <p>Possible partnerships include IPPC Bureau, European Environmental Agency and industry sector</p>

associations.

5. High level budget projection of the proposal. In case this is a multi-year project, identify future requirements as much as possible

	Year 1 (exact)	Year 2	Year 3	Year 4
How much money do you require from IMPEL?	18185			
How much money is to be co-financed	0			
Total budget	18185			

6. Detailed event costs of the work for year 1

	Travel € (max €360 per return journey)	Hotel € (max €90 per night)	Catering € (max €25 per day)	Total costs €
Event 1	1440 (4*360)	720 (4*2*90)	125 (5*25)	2285
<i>Project Meeting</i>				
<i>May 2017</i>				
<i>Rome</i>				
<i>5</i>				
<i>2 nights accommodation</i>				
Event 2	1440 (4*360)	720 (4*2*90)	125 (5*25)	2285
<i>Project Meeting</i>				
<i>October 2017</i>				
<i>Rome</i>				
<i>5</i>				
<i>2 nights accommodation</i>				
Event 3	8640 (24*360)	4320 (24*2*90)	625 (25*25)	13585
<i>Final Workshop</i>				
<i>End of 2017</i>				
<i>Rome</i>				
<i>25</i>				
<i>2 nights accommodation</i>				
Total costs for all events	11520	5760	875	18155

7. Detailed other costs of the work for year 1

7.1 Are you using a consultant?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
7.2 What are the total costs for the consultant?	
7.3 Who is paying for the consultant?	
7.4. What will the consultant do?	
7.5 Are there any additional costs?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Namely:
7.6 What are the additional costs for?	
7.7 Who is paying for the additional costs?	
7.8. Are you seeking other funding sources?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Namely:
7.9 Do you need budget for communications around the project? If so, describe what type of activities and the related costs	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Namely:

8. Communication and follow-up (checklist)

	What		By when
8.1 Indicate which communication materials will be developed throughout the project and when <i>(all to be sent to the communications officer at the IMPEL secretariat)</i>	TOR ✓ * Interim report ✓ * Project report ✓ * Progress report(s) ✓ Press releases News items for the website ✓ * News items for the e-newsletter Project abstract ✓ * IMPEL at a Glance ✓ Other, (give details):	<input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/>	01/01/17 31/05/17 31/10/17 - - 31/10/17 - 31/10/17 31/10/17
8.2 Milestones / Scheduled meetings (for the website diary)	Questionnaire in/out Project Meeting x2 Autumn ET meeting Final Workshop		
8.3 Images for the IMPEL image bank	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
8.4 Indicate which materials will be translated and into which languages	Project abstract (dependent on project team members)		
8.5 Indicate if web-based tools will be developed and if hosting by IMPEL is required	No		
8.6 Identify which groups/institutions will be targeted and how	All IMPEL members via questionnaire		
8.7 Identify parallel developments / events by other organisations, where the project can be promoted			

✓) Templates are available and should be used. *) Obligatory

9. Remarks

Is there anything else you would like to add to the Terms of Reference that has not been covered above?

*In case of doubts or questions please contact the
IMPEL Secretariat.*

*Draft and final versions need to be sent to the
IMPEL Secretariat in word format, not in PDF.*

Thank you.