

WP6 – Dissemination and valorization

D 6.6: Knowledge transfer website



The project "Full scale demonstration of energy positive sewage treatment plant concepts towards market penetration" (POWERSTEP) has received funding under the European Union HORIZON 2020 – Innovation Actions - Grant agreement^o 641661

Deliverable 6.6	Knowledge transfer website
Related Work Package:	6
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Grant Agreement Number:	n° 641661
Instrument:	Horizon 2020 Framework Programme
Start date of the project:	01.07.2015
Duration of the project:	36 months
Website:	www.powerstep.eu
Abstract	Deliverable 6.6 is the third and follow-up development phase of the POWERSTEP website. It is aimed at specialist community, consisting of WWTP operators and planners and scientific community. The website showcases, in a structured way, a number of approaches and technologies that improve the energy efficiency of wastewater treatment plants and highlights case study results and best practices.

Dissemination level of this document

Х	PU	Public
	PP	Restricted to other programme participants (including the Commission Services)
	RE	Restricted to a group specified by the consortium (including the European Commission Services)
	СО	Confidential, only for members of the consortium (including the European Commission Services)

Versioning and Contribution History

Version	Date	Modified by	Modification reasons		
v.01	2018-06-05	Riikka Pohjankoski (ARCTIK)	1 st Draft		
	2018-06-06	Boris Lesjean (Veolia Germany)	1 st review		
v.02	2018-06-07	Riikka Pohjankoski (ARCTIK)	2 nd Draft		
	2018-06-11	Boris Lesjean (Veolia Germany))	2 nd review		
v.03	2018-06-12	Riikka Pohjankoski (ARCTIK)	3 rd Draft		
	2018-06-14	Christian Loderer (KWB)	3 rd review		
	2018-06-15	Riikka Pohjankoski (ARCTIK)	Final version based on feedback Christian Loderer		

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Executive summary

The objective of the third development phase of the POWERSTEP website is to increase the awareness of the concept of energy-positive wastewater treatment plant (WWTP) and related approaches and technologies among the scientific community and WWTP operators and planners.

The website communicates about the relevant processes, purposes, approaches and technologies in a structured and detailed way. While technical in content, the website uses images and interactive elements (e.g. pop-up windows), and provides links to further reading, in order to enhance the user-friendliness of the website.

A new entry door on the POWERSTEP website's landing page has been activated to offer a direct access to the knowledge transfer platform. The website will stay alive for a minimum of two years after the end of the project and various communication actions have been undertaken to ensure that the website will become known among and will be used by the target audiences (social media, conferences, etc.).

1. Introduction

This document is the final version of Deliverable 6.6 – Knowledge transfer website. It lays out the features of the 3rd portal of the POWERSTEP website aimed at specialist stakeholders in the water sector (utilities, water industry, scientific community).

The rest of the document is organised as follows:

- First, we recall the objectives of the project and the dissemination support as well as the role of the POWERSTEP knowledge transfer website in the overall communication and website development strategy.
- Secondly, we explain the process of building the website and the main features of the portal.
- Finally, we shortly outline how we aim to ensure the exploitation of the website.



2. Objective of the project¹

The POWERSTEP project is built to achieve a real paradigm shift in wastewater treatment processes: to convert sewage treatment plants (STEPs) into power production facilities (POWER) while still achieving a high effluent quality for the treated wastewater.

2.1. Objective of WP6: Dissemination and communication support

As indicated in the Deliverable 6.1 "Target-oriented communication plan"² ARCTIK follows a three-step dissemination strategy. The aim of the **first step**: "Information and knowledge management: set the foundation and process" (M1 – M36) has been to install, develop and spread the branding and values of POWERSTEP as a community of organisations working on the future wastewater treatment plant (WWTP). The purpose has also been to ease the exchange of information and knowledge between the different partners. The **second phase**, "Know-how translation and targeted brokerage" (M1 – M36) has aimed at establishing a strong relationship with primary target groups, whilst the **third phase**, "Large spectrum communication" (M18-M36) has promoted POWERSTEP as a key breakthrough of innovation at a larger scale, to reach the public and media interest.

The Deliverable 6.6 "Knowledge transfer website" fits into the second step of the dissemination strategy by providing a platform for know-how translation between experts in the water sector.

¹ Description of Action (DoA)

² Deliverable 6.1 "Target-oriented communication plan submitted on Cordis in November 2015.

3. Deliverable 6.6: Knowledge transfer website

3.1. POWERSTEP website: recalling the 3 portals

The development of the POWERSTEP website is based on three integrated and incremental steps that have been designed to follow the overall progress of the project activities:

- Institutional website (D6.2): the main knowledge hub containing information about the project (description, objectives, partners, Work packages, case studies, videos, news and events...) – published in March 2015;
- Innovative website (D6.4) A public oriented website explaining the concept of an energy positive wastewater treatment plant. - published in February 2017;
- **Knowledge transfer website (D6.6)** providing the information on the technologies and concepts for possible market replication published in May 2018.

3.2. POWERSTEP communication funnel

The creation of the knowledge transfer website (D6.6) helps to complete the general POWERSTEP website development strategy:

- The motion design video introduces the POWERSTEP concept of energy-positive WWTP. It also serves as an in-bound marketing tool to attract all types of public to the website(s);
- The institutional website (D 6.2) presents POWERSTEP to main stakeholders;
- **The interactive website (D 6.4)** presents the concept of energy-positive WWTP in more detail and will reach the most interested audiences, but also the general public and media;
- The knowledge transfer website (D 6.6) presents POWERSTEP technologies to scientific experts, WWTP operators and planners.

As such, each of these on-line communication tools is aimed at a specific target, ranging from a wide audience (i.e. general public) to the expert community (i.e. scientific experts).





Figure 1: POWERSTEP website's communication funnel

3.3. Knowledge transfer website: process

To ensure a logical way of presenting all information, ARCTIK and KWB, together with consortium partners, worked out a structure for implementing the information online (see Figures below). This consisted of looking into all interlinkages between the different topics and areas to be showcased (processes, purposes, approaches, technologies, case studies) and laying out in detail how they can be presented in a user-friendly and logical way to the web visitors.

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			DAP	
			Microsieve	Westewitz, Sjölunda,
		Secondary treatment	Activated sludge	
			Two-stage activated sludge	
			MBBR	
			Mainstream Anammox (1-stage)	
			Mainstream Anammox (2-stage)	Sjölunda,
		Tertiary treatment	Sand filter	
			Ozonation	
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			N thritationy Denitritation	Kirchbichi,
			Deammonification	
		Nitrogen recovery	Air stripping	
			Membrane stripping	Altenrhein,
	Biogas valorization	Valorisation on-site (electricity and/or heat produc	tion) CHP plant	
			Microgas turbine	
			Gasboiler	
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			Catalytical methanation	
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Figure 2: POWERSTEP structure based on technologies

I want to reduce electricity consumption of my WWTP	I want to increase energy production at my WWTP	I want to utilize unused excess energy at my WWTP	I want to use the dynamic energy market at my WWTP	I want to recover nutrients a my WWTP
purpose	Level 1: Purpose	Level 2: Choose approach	Level 3: Choose technolog	y Level 4: choose case study
	Reduce electricity consumpt	ion Enhanced C extraction	CEPT	
ess: click on respective button			DAF	
			Microsieve	Westewitz, Sjölunda,

		Low-carbon N removal	Advanced control	Westewitz
			Mainstream Anammox (1-s	tage)
			Mainstream Anammox (2-s	tage) Sjölunda,
		Efficient aeration	Membrane aerated biofilm	reactor
		5 L . 10		
	increase energy production	Ennanced C extraction	CEPI	
			Microciaua	Wortowitz Siölunda
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		Improved direction	Thermal burtrolysis process	as.
		mproves agestion	Cascade digestion	
	Utilize unused energy	Heat-to-power	SRC/ORC	
			Thermoelectric generators	Braunschweig,
		Power-to-gas	Biological methanation	Avedore,
			Catalytical methanation	
	Use dynamic energy market	SmartGrid	Optimize electricity use	
			Load shifting	
			Load balancing market	
	Recover nutrients	Sidestream N recovery	Membrane stripping	Altenrhein
	Mar N			
	NOTE 7			

Figure 3: POWERSTEP structure based on purpose



By location	Level 1: by country	Level 2: choose case study	Level 3: choose approach	Level 4: related technology
	Germany	Westewitz	Enhanced C extraction	Microsieve
access: click on map			Low-energy N removal	Advanced control
		Braunschweig	Heat-to-power	Thermoelectric generators
			SmartGrid	Optimize electricity use
	Switzerland	Altenrhein	Nitrogen recovery	Membrane stripping
	Austria	Kirchbichl	Nitrogen removal	Nitritation/Denitritation
	Sweden	Sjölunda	Enhanced C extraction	Microsieve
			Low-energy N removal	Mainstream Anammox (2-stage)
	Denmark	Avedore	Power-to-gas	Biological methanation

Figure 4: POWERSTEP structure based on location

ARCTIK created a detailed website wireframe (Annex 1) and website mock-ups (Annex 2), which were implemented by ARCTIK's web developer. The website has been developed as an individual entity, but it is linked to the other POWERSTEP web pages via a shared landing page (Figure 5).





Figure 5: POWERSTEP landing page with 3 entry doors

The content for the website was drafted and collected by KWB, with consortium partners providing inputs on specific technologies and case studies. KWB, together with ARCTIK, took care of the final editing of the content provided.

3.4. Knowledge transfer website: main features

The knowledge transfer website provides information on:

- o 7 wastewater treatment processes
- o 5 purposes for an energy-positive wastewater treatment plant
- o 10 approaches
- o 24 technologies
- 6 case studies showcasing best practices

The home page of the website features three main sections:

- Illustration of an energy-positive WWTP
- A list of five purposes for an energy-positive WWTP
- An interactive map with case studies

Each of these sections contains interactive elements (clickable images, clickable links) which allow the web visitor to continue browsing the website and to access further information.

For the first two sections, pop-ups are used to display for the visitor further information and to provide further options to click on (Figure 6).



Figure 6: Example of a pop-up

For each process and purpose, a specific page has been created, which explains the process/purpose approaches and/or technologies (Figure 7).

Electricity is the main driv aeration of biological tree reduced by increasing th- needs of the biological st energy nitrogen removal	er for energy costs at a WWTP, and it is most timent steps. Electricity consumption can be s efficiency of the aeration system or by reduc age. Enhanced carbon extraction in primary tu can both reduce aeration demand and relate	y used for ignificantly ing the oxygen eatment and low 1 electricity
consumption, enabling s	ivings in operational cost.	
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vated sludge		

Figure 7: Example of a page



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By choosing to click on one of the locations on the map (3rd main section on the home page), the web visitor is directly taken to a section where the energy-positive WWTP operations of the plant is question are explained (Figure 8).



Figure 8: Interactive map

More generally, the website has been designed in such a way that each section on the website allows the visitor to directly and easily access other information related to a specific process, purpose, approach, technology, or case study. In other words, the different sections and related topics have been linked together through clickable links and pop-up elements. For example, a person reading about the Nitrogen removal approach can easily continue reading about the purpose for which this approach is used, which technologies are used and where this approach is being implemented. This has been realised using hyperlinks and anchors on the website (Figure 9).



of my WWTP

N REMOVAL



Figure 9: Interlinkages between different sections on the website

Nitrification/Denitrification

Similarly, to give another example, when reading about a case study, the web visitor can easily access information about the related purposes, approaches and technologies. Whenever relevant, further links to reports and websites are also provided (Figure 10).



Figure 10: Interlinkages between different sections on the website

The purpose is to make the overall experience informative while keeping the website dynamic and interactive. Visitors are also offered the possibility to access the institutional website as well as the interactive/innovative website (Figure 11) from the knowledge transfer website (Figure 11).





ENERGY POSITIVE WASTEWATER TREATMENT PLANT



Figure 11: Menu to access other POWERSTEP web portals

3.5. Dissemination and exploitation activities

Since its publication in May, the website has been promoted via social media (Figure 12) as well in conferences and via partners' networks. In addition, a news item (Figure 13) and a banner (Figure 14) to promote the new website have also been published on the institutional website of POWERSTEP in order to increase the visibility of the new portal among visitors of this website.







• POWERSTEP KNOWLEDGE SHARING PLATFORM NOW LIVE!

POWERSTEP KNOWLEDGE SHARING PLATFORM NOW LIVE!

RECENT NEWS

Do you want to reduce electricity consumption of your WWTP, increase energy production of your WWTP, or recover nutrients from your WWTP? Or do you want to find out about the currently operating energy-positive wastewater treatment plants?

31/05/2018 POWERSTEP knowledge sharing platform now live!

Figure 13: News on POWERSTEP institutional website



Figure 14: Banner on POWERSTEP institutional website

The website will be kept alive for a minimum of 2 years after the end of the project to ensure that it reaches a maximum audience and remains available for future exploitation by the water expert community. A developed template can be used by different actors in the field to be part of this "knowledge-transfer" webpage. The webpage should finally be a support tool for operators to get an overview on actual activities in their field as well as should be a support for starting decision on how to improve their own WWTP.



Annex 1 – Website wireframe

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Page 1.1			4/8
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the map on the main page





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Annex 2 – Website mock-ups







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0 LOCATIONS

POWERSTEP

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WHICH APPROACHES?

WHAT PURPOSES? Reduce electricity consumption Increase energy production Enhance carbon extraction Low-carbon nitrogen removal WHICH TECHNOLOGIES?

Microsieve Advanced control

Ł Report on primary treatment for carbon Report on primary treatment for carbon





WHAT PURPOSES? Reduce electricity consumption Increase energy production

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SJÖLUNDA, Sweden

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WHICH APPROACHES? Enhance carbon extraction Low-carbon nitrogen removal

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Microsieve Mainstream Anammox (2-stage)



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D POWERSTEP

TECHNOLOGIES

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