



Bundesministerium
für Umwelt, Naturschutz
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Water Reuse and Resource Recovery: A Prospect in Europe

Online Workshop

Monday 26th April - 2021 via Zoom

Starts at 9:00 CET [Berlin]

Free access under prior registration.





AGENDA

Monday 26th April 2021

Time	Event
9:00 AM	Welcome and introduction <ul style="list-style-type: none">➤ Dipl.- Ing. Mirko Hänel, M.Sc. (Head department -TTZ Bremerhaven)
9:15 - 9:30	The Braunschweig water reuse scheme (AV-BS) <ul style="list-style-type: none">➤ Dr. Ing Franziska Gromadecki (Director - AV-BS Braunschweig)➤ M.Sc.-Ing. Janina Heinze (Project Manager AV-BS Braunschweig)
9:35 - 9:50	Nutrient and energy recovery in Braunschweig (NextGen) <ul style="list-style-type: none">➤ Dr.-Ing. Anne Kleyböcker (Researcher- Kompetenzzentrum Wasser)
9:55 - 10:10	Constructed wetlands for water reuse and resource recovery <ul style="list-style-type: none">➤ Ing. Carlos A. Arias, PhD (Senior Researcher- Aarhus University)➤ Ing. Carlos Ramírez-Vargas, PhD (Postdoc - Aarhus University)
10:15 – 10:24	<i>Coffee break</i>
10:25 - 10:40	Smart fertigation (Green Drop) <ul style="list-style-type: none">➤ Dipl. Ing Stefan Scholz (Manager director HYDRO-AIR international)
10:45 – 11:00	Water reuse network in Europe (SUWANU EU) <ul style="list-style-type: none">➤ M.Sc. - Ing. Andrés Acosta, (Project leader - TTZ Bremerhaven) PhD candidate at Aarhus University
11:05 – 11:20	Hydroponic water reuse (HypoWave) <ul style="list-style-type: none">➤ Prof.- Dr. Thomas Dockhorn (Technical University Braunschweig)➤ M.Sc. - Ing. Sybille Karwat (Researcher - Institute for Sanitation and Water Management of the Technical University Braunschweig)
11:25 – 11:40	Agricultural reuse of digestate (GreenCycle) <ul style="list-style-type: none">➤ M.Sc. - Agr. Veiko Junghans (Researcher – Humboldt University)
11:45 – 12:50	Discussion <ul style="list-style-type: none">➤ Moderators Andrés Acosta and Mirko Hänel (TTZ Bremerhaven)
12:50 – 13:00	<i>Acknowledgements and closure.</i>



Registration: <https://form.jotform.com/210672121649351>

Context

The global water demand has been increasing at more than twice the rate of population growth. In the past two decades, the annual amount of freshwater resources per person has dropped by about 20% (FAO, 2020).

The mismatch between demand for agriculture and availability of water has been affecting not only arid and water-stressed areas but also a wide range of regions around the world. According to the United Nations, 1.2 Billion people already live in severely water-constrained agricultural zones (United Nations, 2020). It implies a serious threat in particular, for the agricultural sector and the food security worldwide.

Consequently, the development of innovative solutions for water management, as well as its discussion and dissemination, remains crucial to alleviate and provide alternatives for water supply, establish the basis for ensuring food security and the minimum water demand requirements.

Our Workshop

One of the alternatives that have been increasingly recognized, is the reuse of water after treated (i.e., water reclamation). Its implementation combined with resource recovery (e.g., Phosphorus, Energy, Materials) still being a challenge in Europe for the industrial and agricultural sectors.

The current Workshop aims to discuss with experts, innovative processes and technologies developed by European projects in the frame of water reuse and nutrient recovery and their potential in Germany.

Responsible

Andrés Acosta.

Ing. - M.Sc.

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