



## EWA Series on Innovation Web-Seminars

# Phosphorus Recovery from Waste Water

**Date and time** Online session: 21.09.2021  
**Registration fee** 119 €  
**Registration and payment**

### Objectives

Waste water is not only waste, it is also a resource. Especially phosphorus is an essential, yet limited resource, which is not replaceable by any other element. This is why there are increasing efforts to recycle phosphorus contained in waste water. It involves the recovery of phosphorus and, normally, the separation of phosphates from harmful substances.

Phosphorus can be recovered from waste water, sewage sludge, as well as from the ash of incinerated sewage sludge, and can be combined with phosphorus removal in most cases. Up to now, there is limited experience in industrial-scale implementation. The costs for recovered phosphate exceed the costs for phosphate from rock phosphate by several times.

The utility companies in Hamburg, HAMBURG WASSER and REMONDIS, have built the world's first large-scale plant to recover this vital raw material at the Hamburg sewage treatment plant.

For the first time worldwide, this process allows the important raw material concentrated in sewage sludge ash during waste water treatment to be recycled economically and efficiently. Phosphorus is in limited supply worldwide, but is essential for plant growth and thus for food production as a whole. In the long term, the sewage sludge ash produced in Hamburg is to be completely recycled in order to recover phosphorus.

This 3rd Innovative Web-Seminar will look into the recovery process and present the situation, strategy and solution at HAMBURG WASSER. Moreover, the waste water plant, as well as the phosphorus recovery unit will be presented.

Registration on  
[ewa-online.eu](http://ewa-online.eu)

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online and save  
CO<sub>2</sub>, time and  
travel expenses!

### European Water Association

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**Moderator** Heinz Habegger, VSA, (CH) representing EWA

Time	Topic / Activity	Speaker
10:30 – 10:40	Introduction	Mr. Heinz Habegger
10:40 – 11:00	Sludge to Resources Recovery; Utilization Strategies for Phosphorous Recovery from Sewage Sludge in Europe: A Case Study of Phosphorus Recovery in Switzerland	Mr. Heinz Habegger
11:00 – 11:15	Questions & Answers	Mr. Heinz Habegger
11:15 – 11:35	Presentation of HAMBURG WASSER and the Waste Water Treatment Plant Köhlbrandhöft, Dradenau	Mr. Christian Günner, HAMBURG WASSER (DE)
11:35 – 11:45	Questions & Answers	Mr. Heinz Habegger
<b>11:45- 12:00</b>	<b>Break</b>	
12:00 – 12:05	Introduction of next speaker	
12:05 – 12:35	Phosphorous Recovery Plant in Hamburg Description of the Wastewater Treatment Plant Description of the Phosphorous Recovery Unit First Operation Experiences	Mr. Hendrik Schurig, HAMBURG WASSER (DE)
12:35 – 12:50	Questions & Answers	Mr. Heinz Habegger
12:50 – 13:00	Conclusions and Wrap Up	Mr. Heinz Habegger
13:00	End of Web-Seminar	