



Reuse, recover, recycle – Accelerating Resource Recovery from Water

IWA WWC workshop, Tokyo, 20 September 2018.

Room 610 from 10:30 to 15:00

1. Programme

| Phase | Presentations | Who | Time | |
|---|--|--|--------|-------|
| Introduction | Water in the circular economy, supporting a nascent movement (policy and governance aspects) – feedback from WWF2018 | Bruno Tisserand, EurEau | 10 :30 | |
| | Accelerating Resource Recovery from Water: Business models, drivers and regulatory policies | David Stuckey, co-chair of the cluster for resource recovery | | |
| Session 1: The development of successful business models and their relation to (national) policy and regulations. | Phosphorus Recycling in Switzerland | Kaarina Schenk, Federal Office for the Environment, Switzerland | 10:45 | |
| | Influence of regulatory frameworks on business models and technology choices | Christian Kabbe, Isle Utilities and German Phosphorus Platform, Germany | | |
| | Business models/options for RRR – Opportunities and constraints | Miriam Otoo, Research Group Leader – Resource Recovery and Reuse, International Water Management Institute (IWMI), Sri Lanka | | |
| | Discussion in breakout session | Moderator: Ludwig Hermann | | 11:15 |
| | Feedback from the audience using | Moderator + speakers | | 11:30 |
| Session 2: Successful case studies of resource recovery | Recovery of struvite from WWTP,(technical and economic aspects) | Marjolein Weemaes, Aquafin, Flanders. | 11:35 | |

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| from water: drivers and KPIs. | Energy surplus at wastewater treatment plants: energy efficiency and recovery such as biogas, electricity, vehicle fuel, and reuse of surplus heating from treated wastewater – Experience from Denmark | Jens Prismus, BIOFOS, Denmark | |
| | Revaq certified wastewater treatment plants for control at source and improved quality in carbon and nutrient recycling | Ulf Thysell, Svenskt Vatten, Sweden | |
| | Water reuse – treated wastewater safely reused in agriculture experience from southern Europe | Gari Villa-Landa Sokolova, AEAS, Spain | |
| | Water recycling adoption in Food and beverage sector | Chris Hertle, GHD, Australia | |
| | Discussion in breakout session | Moderator: Bruno Tisserand | 12:05 |
| | Feedback from the audience using | Moderator + speakers | 12:20 |
| Session 3: Centralized versus decentralized. | P Innovation to reshuffle the P value chain for recycling | Hisao Ohtake, Japanese P-recycling Council, Japan | 13:50 |
| | Centralized sludge incineration in Zürich enabled by cooperation of 72 municipalities/sewage operators and saving almost 50% of the previous sludge management costs. | Tanja Schaaf, Outotec, Germany | |
| | P-recycling as CleanMAP® - outperforming linear products in terms of purity, solubility and nutrient concentration | Yariv Cohen, EasyMining, Sweden | |
| | Regional resource recovery from sewage and the organic fraction from municipal solid waste and restoring biodiversity in agriculture | Gilberto Garuti, Acqua e Sole, Italy, | |
| | Discussion in breakout session | Moderator: Ilje Pikaar, Queensland University | 14:20 |
| | Feedback from the audience using | Moderator + speakers | 14:40 |
| Conclusion | Key points to follow on the 2 next big events | Representative of the cluster for the Venice conference (Ludwig Hermann, ESPP) + Copenhagen WWC 2020 (Hans-Martin Friis Møller, Kalundborg Utility/DWF | 14:45 |

