

Improving wastewater management in the Baltic Sea Region



EUROPEAN
REGIONAL
DEVELOPMENT
FUND



Capacity development

Transferring knowledge and know-how across the borders

IWAMA activities will enable structured lifelong learning and expertise exchange of WWTP staff to increase mainstreaming of the best available technologies and to promote the uptake of smart sludge and energy management in WWTPs of the Baltic Sea Region.

Activities include:

- development of **training materials package** on smart energy and sludge management
- 4 online training webinars
- 6 international onsite workshops
- 5 national dissemination events
- facilitation of **national knowledge based communities** of water experts in BSR countries

Learn with us!

Smart energy management

IWAMA will demonstrate on the macro regional level how an improved management of energy efficient nutrient reduction is applicable in varying sizes and advancement levels of wastewater treatment facilities. Reduction of nutrients and electrical energy consumption will be implemented through **the smart energy management concept** based on key figure data collection and **audits** in a wide range of WWTPs in the region.

Pilot investments:

- Nitrogen component control system in Daugavpils WWTP, LV
- Energy optimized control system in Kaunas WWTP, LT
- Full-scale advanced control system in Grevesmühlen WWTP, DE
- Combined anammox-constructed wetland pilot-plant in Gdansk WWTP, PL

Audit and test with us!

Smart sludge management

In IWAMA the quality of sludge will be measured and assessed during the sludge management audits and key figure data collection considering specific technological and regional features. A uniform and thorough guidelines for applying **the audit concept for smart sludge management** will be developed and tested. Nutrient removal process will be enhanced through advanced sludge water treatment and new low-cost solutions for sludge hygienisation, stabilisation and drying.

Pilot investments:

- Full-scale sludge humification beds in Türi and Oisu WWTPs, EE
- Reject-water treatment system in Tartu WWTP, EE
- Energy-efficient sludge drying in Jurmala WWTP, LV

Lead Partner

Union of the Baltic Cities (UBC)
Sustainable Cities Commission

Björn Grönholm

tel: +358 44 9075987

bjorn.gronholm@ubc.net

Vanha Suurtori 7

FIN 20500 Turku

www.ubc-sustainable.net

EUSBSR Flagship status for Priority Area “Nutri”

Budget: EUR 4.6 million

Duration: Mar. 2016 – Feb. 2019

www.iwama.eu

Working together

to improve the state of the Baltic Sea

10

Countries

17

Partners




12

Associated Partners

The Baltic Sea Challenge initiative

The project will build up a strong knowledge based transnational network of water experts in the Baltic Sea Region and challenge them to make a concrete commitments for improving the state of the Baltic Sea.

Commit with us on
www.itamerihaaste.net/en

-  Universities
-  Water Associations
-  Wastewater Treatment Plants (WWTP)
-  Others
-  Associated Partners



IWAMA AIMS at improving the resource efficiency in wastewater management in the Baltic Sea Region by developing the capacity of the water sector operators and implementing pilot investments to increase the energy efficiency and advance the sludge handling.

IWAMA ACTIONS are distributed along three main fields: capacity development, smart energy management and smart sludge management.