

Interreg



Co-funded by
the European Union

North-West Europe



**Energy
transition**

ResNRJwater

Save the date
11 - 12 June 2024



© EGLV/Baumers, Klaus

Launch conference of ResNRJwater Project (INTERREG NWE)

Resilient energy supply for and from water and
wastewater infrastructures in North-West Europe

11 - 12 June 2024, Essen



Information of the conference

Date and place 11 June 2024: official launch event Essen, Germany
12 June 2024: internal project partner meeting

Organisator The **ResNRJwater partnership** with the Emschergenossenschaft as hosting partner and the Lippeverband as project lead partner

Target groups The conference will specifically address:

- **Waterboards** in charge of the water and wastewater infrastructures
- Local **energy suppliers**
- **Heat and power network operators**
- (Inter-) **Municipalities** in urban and rural areas with strategies to foster the use of renewable energy sources
- **Water authorities** being responsible for the operation and maintenance of energy related units
- **Regional authorities** responsible for the approval of energy related units
- Local **energy communities**

Highlights of the event After setting up the political scene of the involved partner regions, the ResNRJwaterproject will be presented: **partners, objectives and activities**. The dynamic linkages with existing and/or recently finished related projects will be explained. An **excursion to the wastewater treatment plant in Bottrop** will showcase an advanced model of **energy flow management** at wastewater treatment plant: **In addition to sewage sludge and sewage gas, solar, wind and hydropower are smartly combined for climate-friendly energy generation.**

Registration Not yet opened – **it will be soon available, together with the programme of the conference.**

Information of the conference

Why ResNRJwater?

Due to energy and climate crisis, municipalities in North-West Europe need to optimise their energy supply, especially for **energy-intensive water and wastewater infrastructure** (wastewater treatment plants, pumping stations). At the same time, the land used for this purpose (wwtp, sewers, retention basins, dykes, pumping stations, lakes) offers **unexploited potential** for the generation and use of renewable energies: solar/wind power, heat/cooling, green gas. **The space-intensive water infrastructures can become energy self-sufficient and also supply neighbouring communities** with surplus heat and electricity. Due to a balanced spatial distribution, wastewater treatment plants can become energy hubs that also contribute to **grid stabilisation**.

By project end, waterboards and intermunicipalities in 4 areas (DE/Emscher-Lippe region, BE/Flanders, NL/North-Holland, FR/Loire-Atlantique) can adopt a strategy to **turn the water and wastewater infrastructure into energy hubs**. Based on 7 demonstration plants, they can uptake validated technologies using renewable energy sources, a smart energy management and storage system for a decentralised and resilient energy supply as well as a concept for consumption of energy-surplus.

The ResNRJwater-partners

- Lippeverband (DE)
- Hoogheemraadschap Hollands Noorderkwartier (NL)
- Territoire d'énergie Loire-Atlantique (FR)
- Aquafin NV (BE)
- Emschergenossenschaft (DE)
- SEM EnR44 (FR)
- BETREM GmbH (DE)
- InfraWatt (CH)
- University of Galway (IE)