

Water Europe

The voice and promoter of water-related innovation and RTD in Europe.



Water infrastructure account for 3,7% of global electricity consumption

- Recognized voice and promoter of waterrelated RTD and innovation in Europe
- Mission:
 - Improve coordination and collaboration in the water ecosystem in the EU and beyond;
 - Enhance **performance and competitiveness** of the water ecosystem;

Contribute to solving **global water challenges** through RTD&I.





Water Europe

The European Association of the innovative water ecosystem



WE Collaborate

The Water Europe Collaboration programme allows our members to network and collaborate along the water value chain to address the water challenges and shape successful project consortia.



WE Advocate

The Water Europe Advocacy Programme is all about making sure that the value of water for our society in reflected in European policies and funding programmes.



WE Market

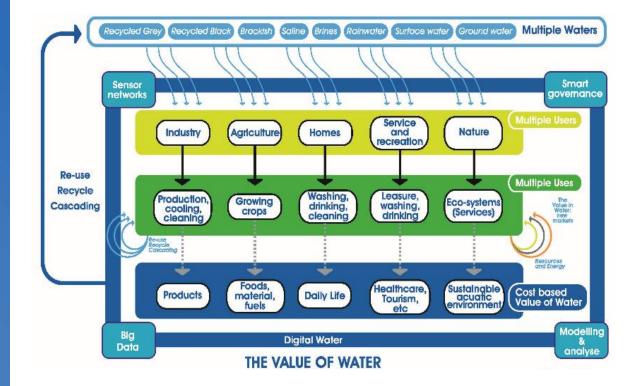
The Water Europe Market Programme enables our members to bring their research results and innovative solutions to the market in Europe and beyond.



Water-Smart Society

Water-Smart Society

- a society in which the true value of water is recognised and realised;
- all available water sources are managed in such a way that water scarcity and pollution of water resources are avoided;
- Water and resource loops are largely closed to foster a circular economy and optimal resource efficiency,
- the water system is resilient against the impact of climate change events.
- A society in which all relevant stakeholders are involved in the governance of our water system.





Water-Energy Nexus



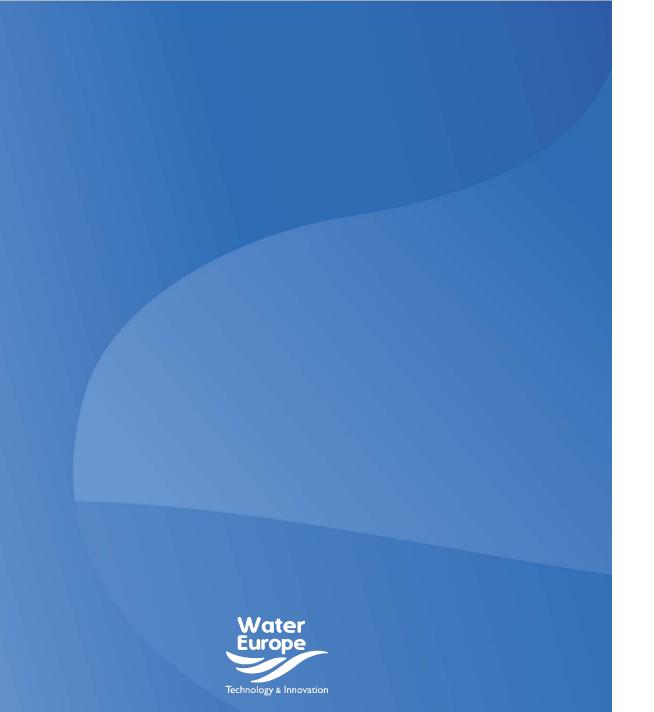
+35% projected increase of global energy demand by 2035



+55%

projected increase of global water consumption by 2050 +35% projected increase of global energy demand by 2035





Deficit of 55% **Between water** supply and demand by 2050



Water footprint of energy source

How can we do it ?



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Climate change and environmental degradation are an existential threat to Europe and the world. To overcome these challenges, the European Green Deal will transform the EU into a modern, resourceefficient and competitive economy, ensuring:

- no net emissions of greenhouse gases by 2050
- economic growth decoupled from resource use
- no person and no place left behind

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fresh air, clean water, healthy soil and biodiversity



cleaner energy and cutting-edge clean technological innovation



renovated, energy efficient buildings



longer lasting products that can be repaired, recycled and re-used



healthy and affordable food



future-proof jobs and skills training for the transition



more public transport

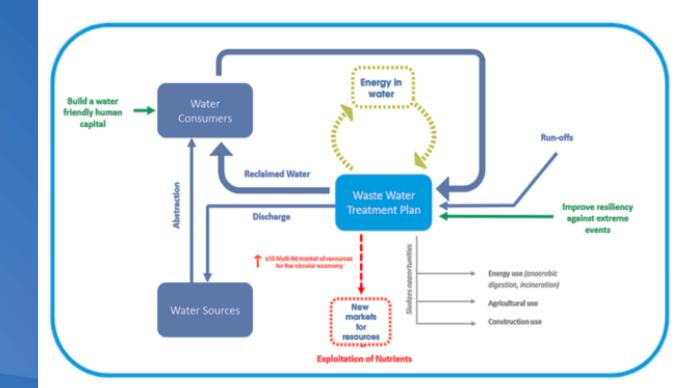


globally competitive & resilient industry



65 **Utilities achieve** net-zero carbon infrastructure worldwide

Urban Wastewater Treatment Directive





Industrial Emissions Directive

3/4 Risks identified by the IPCC report are water related



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Industrial Emissions Directive

Cost of inaction is

x5

More expansive than the investment to tackle water – related risks

Recommendations



UNLEASH THE POTENTIAL OF THE WATER-ENERGY NEXUS IN THE ENERGY EFFICIENCY DIRECTIVE

JOINT DECLARATION

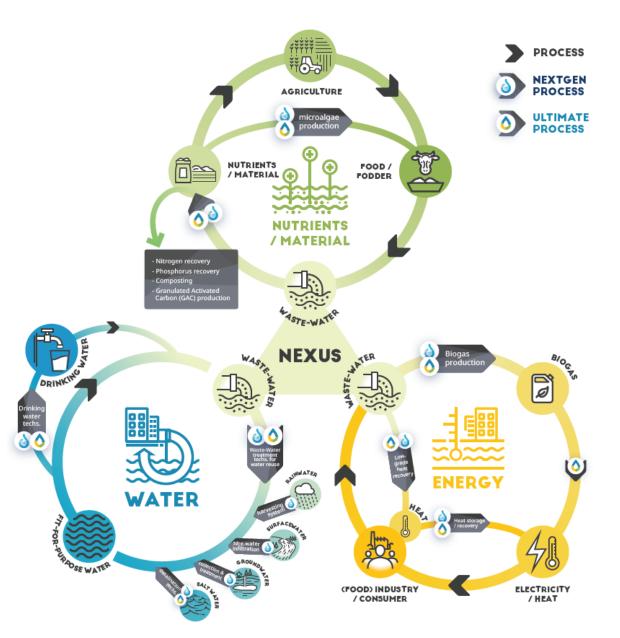




How can we achieve it in Europe?







Cooperation between EU projects on the water-energy nexus

> Water Europe

Technology & Innovation



Timisoara WWTP key innovations and actions

- Demonstrate sludge management with production of by-products and energy via pilot-scale testing of thermochemical conversion.
- Feasibility study of water reuse. Investigate potential applications for effluent from the Timisoara and other AQT WWTPs. Assessment of options in the urban, industrial and agricultural sector.



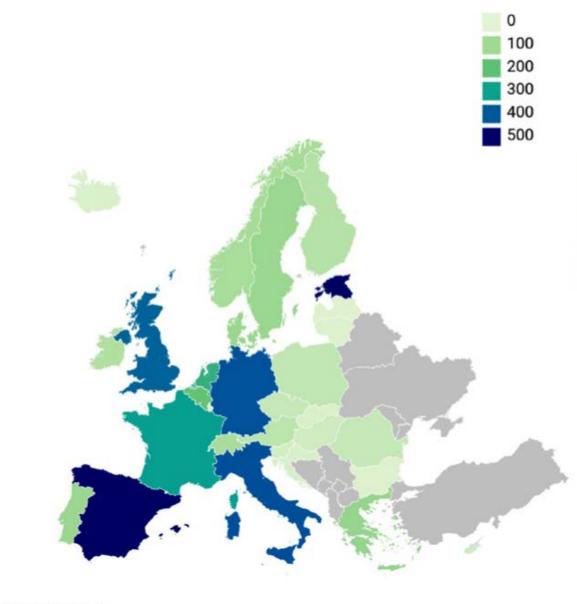
Relevant Sectors

- Agriculture
- Municipal sector
- Water sector
- industry



70%+ Water Europe's members participated in H2020 project from 2014 to 2019

Total number of H2020 water project participations per EU/EFTA country





Created with Datawrapper

The Water-Oriented Living Labs model

- effective methodology for developing and implementing complex solutions in multiple and evolving real-life contexts
- take R&D out of laboratories and sets it in real-life contexts.
- allows for a better understanding of what triggers innovations and of those innovations that prove to be successful in different contexts.
- an inclusive collaborative ecosystem, with an effective governance, based on the quadruple helix actors

105 Water-Oriented Living Labs identified in Europe



Thank You



