

**Interreg
Europe**



Co-funded by
the European Union

NBS4LOCAL

Aquares Sp. Z o.o.

Urban distributed controlled micro-retention system

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What is AQUARES Sp. z o.o.?

- Founded in Rzeszow, Poland
- Specializes in urban water retention systems
- Focus on sustainable solutions for flood prevention

The logo for AQUARES features the word "AQUARES" in a bold, sans-serif font. The letters "A", "Q", "U", and "A" are colored in a light blue, while the letters "R", "E", and "S" are in a dark grey. The letter "Q" is stylized with a blue water droplet shape above it.

AQUARES

Project value:

1.07 million PLN
(approximately 239,161
EUR). Of this, 794,660.85
PLN (177,776.41 EUR) was
provided through EU
funding

The Challenge

"The Urban Flooding Problem"

- Increasing frequency of flash floods in cities
- Sealed urban surfaces prevent water absorption
- Outdated water infrastructure



The AQUARES system

Innovation in action

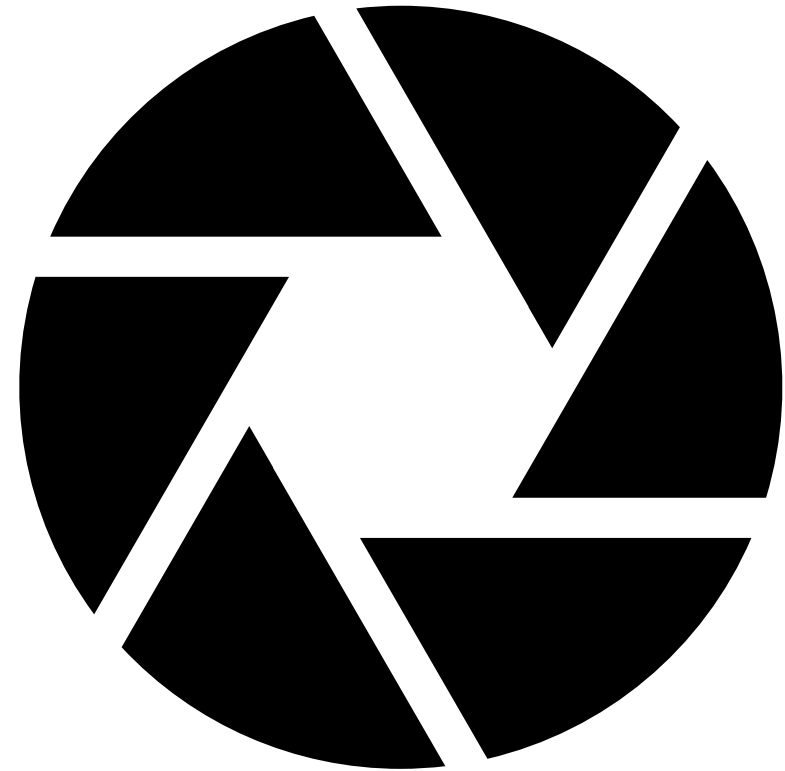
- Vertical and Lower Water Reservoirs for Rainwater Collection;
- Mini Pumped Storage Power Station Powered by PV Panels
- Self-Supporting Structure Requiring No Additional Land.



Photo: Pixabay

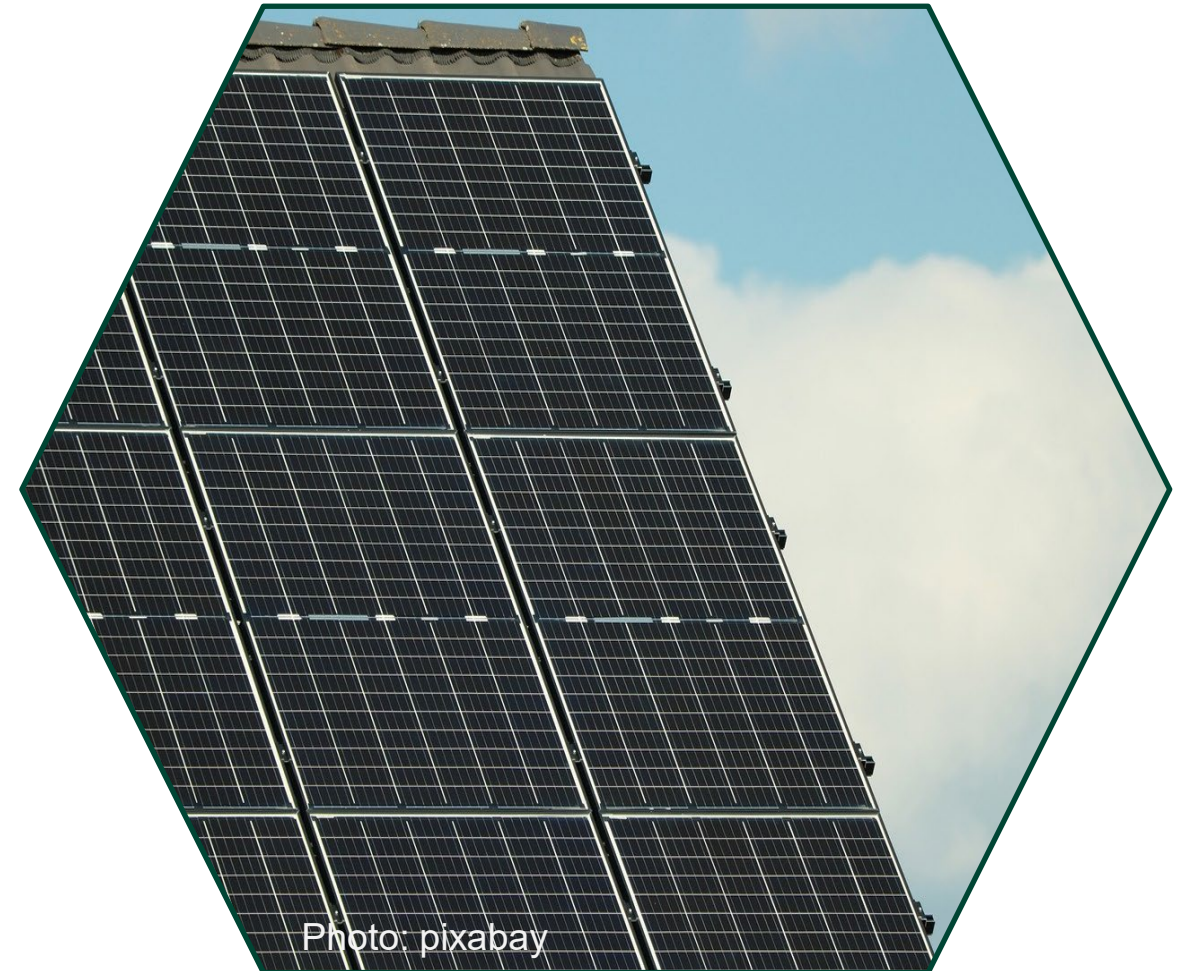
Smart water management

- Uses Weather Forecasts to Control Water Pumping and Release
- Produces Clean Energy Using Stored Water
- Provides Irrigation and Purifies Water with Vegetation Filters.



Benefits for the users

- Water collected
- Energy collected from PV panels
- Reduced flood risk in urban areas



Future potential

- Scalable for Other Urban Areas in Europe
- Potential to Mitigate Flood Risks Globally
- Learning Potential for Other Regions



How does it work?



**Time for
questions**



Thank you!

www.interregeurope.eu/NBS4Local

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The project NBS4LOCAL is implemented in the framework of the Interreg Europe programme and co-financed by the European Union.

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