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Reducing the effects of drought

European Funds for Mazovia 2021-2027

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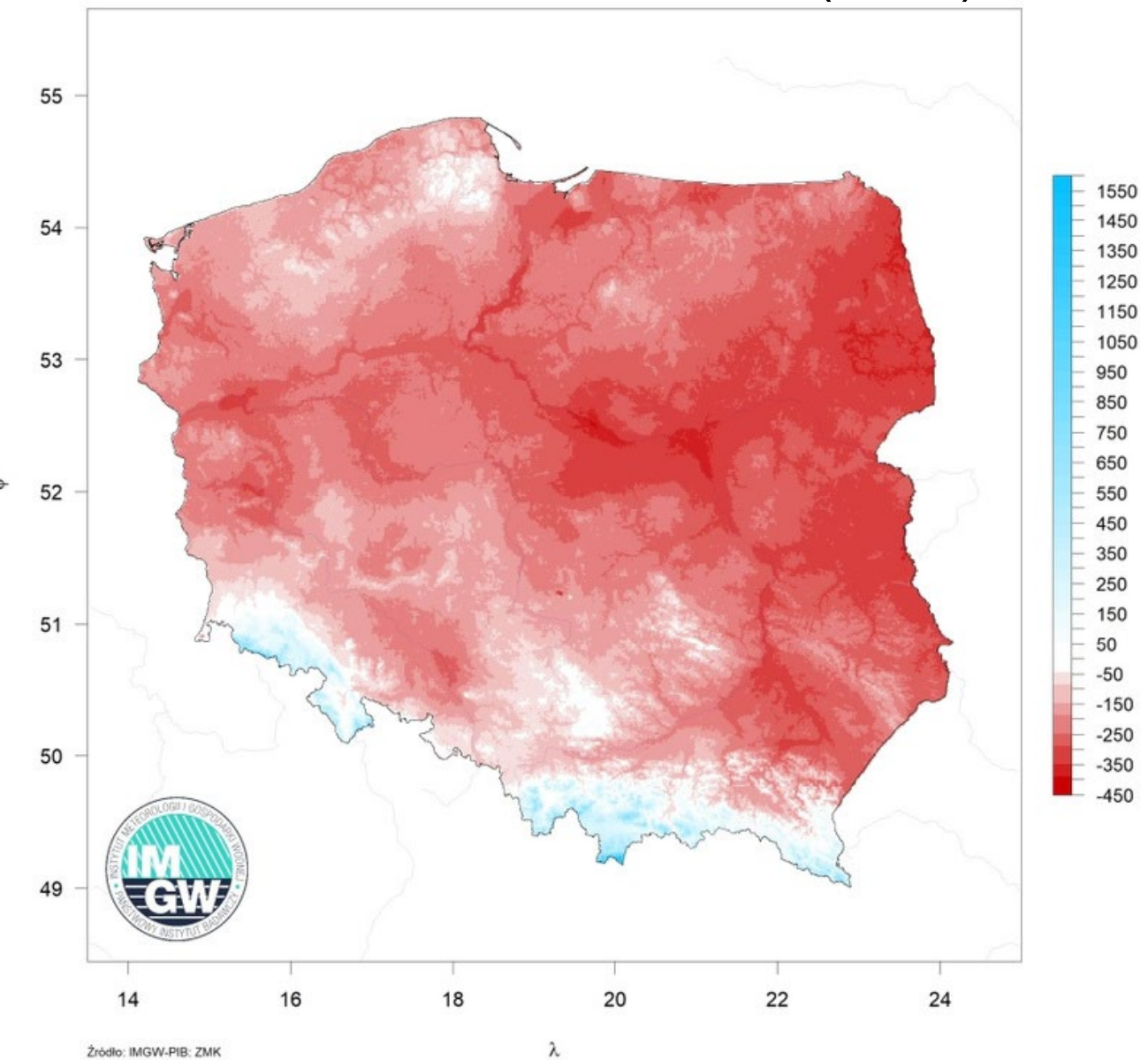


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Drought phenomenon in Mazovia

- Over 57% of the region is highly vulnerable to agricultural drought, while approximately 30% of its rivers, lakes and reservoirs are at risk of hydrological drought.
- Despite an extensive hydrographic network, most watercourses exhibit low flow rates, and the increasing occurrence of seasonal droughts is causing both drying up and a decline in groundwater levels.
- In the first half of 2020, the region recorded over 4500 grassland fires and nearly 1000 forest fires.

Total Water Balance in Poland (2024)



Mitigating the effects of drought in Mazovia

Enhancing flood protection and mitigating the effects of drought

Reducing the consequences of drought and increasing water retention capacity

Construction of small retention reservoirs

Development of irrigation -drainage water management systems

Restoration of wetlands

River restoration, including reintroducing natural meanders and enhancing retention functions

Reduction of water consumption in urban areas and in industry

Increasing the share of biologically active surfaces by reducing or perforating impervious surfaces in cities

Implementation of monitoring, forecasting and early warning systems for drought events

Priority II - European Funds for the green development of Mazovia

Action 2.4: Adaptation to climate change (82 810 000 EUR)

- project types:



Equipment and infrastructure for disaster and emergency management.



Enhancing flood protection and mitigating drought impacts through rainwater retention.



Counteracting the effects of drought and heavy rainfall in urban areas by implementing green and blue infrastructure.



Development of climate change adaptation plans.

Mitigating drought impacts through rainwater retention



Support for the construction or expansion of open retention basins, small-scale water retention reservoirs and hydrotechnical structures

Implementation of rainwater retention measures

Enhancement of forest cover and green areas

Expansion of the water reservoir with the construction of a spillway structure in the municipality of Borkowice

- **Construction:** Removal of aquatic vegetation, shoreline cleaning, clearing trees/shrubs, dredging, embankment shaping, deepening the reservoir, and building a spillway.
- **Education:** Initiatives on climate change and water resource protection.
- **Goal:** Improve flood protection and mitigate drought by expanding the retention reservoir.
- **Funding:** 84 000 EUR



Counteracting the effects of drought in urban areas by implementing **green** and **blue** infrastructure

Integrated on -site water management

- Focus on managing stormwater and meltwater where it occurs,
- Promoting the development of integrated green -blue infrastructure solutions.

Infrastructure enhancements

- Support the construction, expansion, or renovation of retention basins,
- Infiltration systems,
- Permeable surfaces, urban parks, sealed surface and rain gardens,
- Initiatives to increase urban green spaces.

Blue infrastructure improvements

- Improve water retention components,
- Upgrade drainage systems and urban stormwater networks.

Reconstruction of retention basins along with channels in the town of Kroczewo

Design assumptions:

- Deepening and dredging of the basins,
- Modernization of channels.

Goals:

- Increase the volume of stored rainwater,
- Enhance natural water retention through vegetation and rain gardens,
- Boost fire safety, as retained water facilitates firefighting,
- Enhance drought resistance by ensuring water availability during dry periods,
- Enhance public awareness about sustainable water management.

Funding: 1 238 512 EUR



Conclusions

1.

The Mazovia region faces extreme weather events, especially droughts, requiring urgent action.

2.

The "European Funds for Mazovia 2021-2027" program supports key investments, including:

- Construction and modernization of retention reservoirs and drainage systems.
- Development of rainwater retention and green-blue infrastructure.
- Improvement of water management and flood protection.

3.

With EU support, the program enables investments that enhance the region's resilience and improve residents' quality of life.

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Thank you

Energy for future!

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