

Setting and revising targets in Montenegro

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Protocol on Water and Health

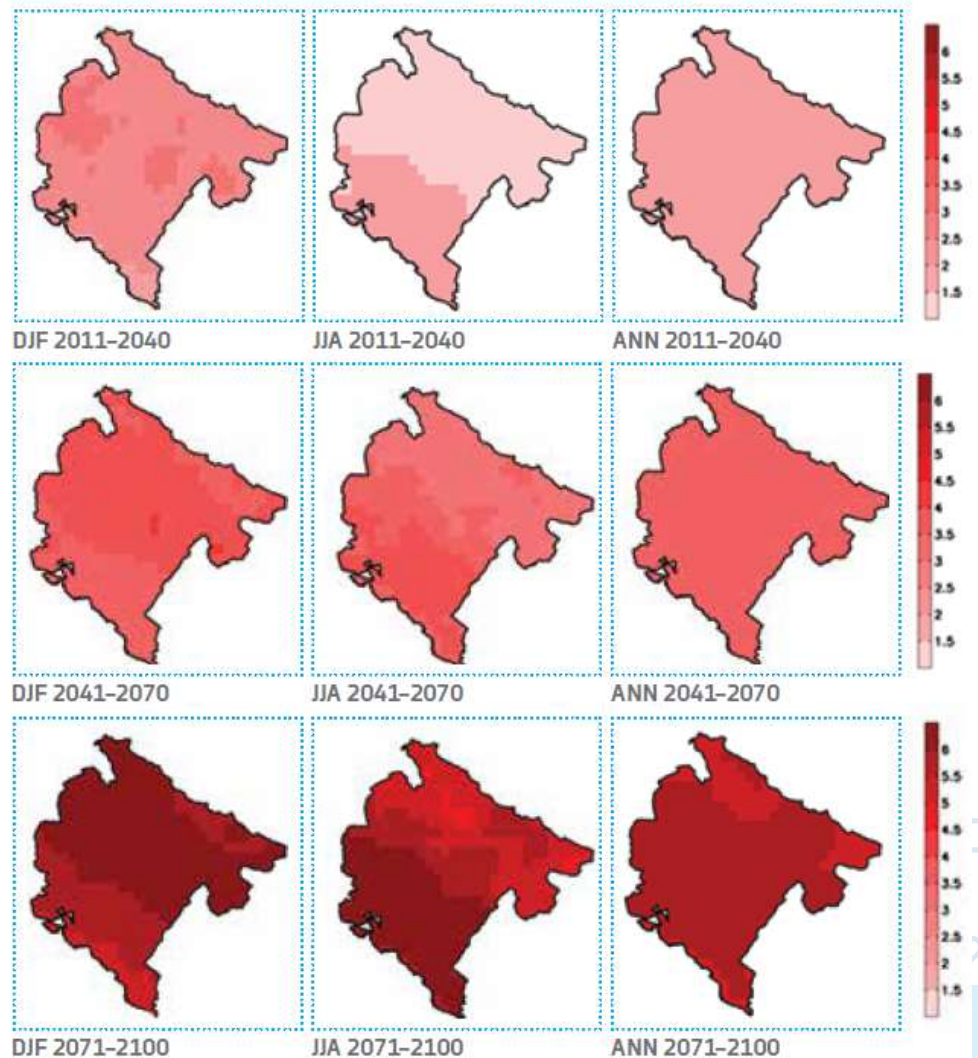


#ProtocolWaterHealth

Climate Change in Montenegro

- Due to geographical location, topography and socio-economic characteristics, Montenegro is particularly vulnerable to the effects of climate change.
- The results from the climate projections show an increase in the annual temperature of 1.5° C to 2° C by 2040 throughout the country. The increase in the temperature during the winter months December–January–February (DJF) is expected to be between 2° C and 2.5° C, and in the summer months June–July–August (JJA) it is expected to be on average around 2° C.
- The impacts of climate change are already visible in Montenegro and are expected to result in additional impacts in key sectors, including the health and water sector.
- The average annual temperature in 2023 was **+ 2.5 °C** higher than the climatological norm for the period 1961-1990
- 2023 was the warmest year over a larger area of the country: spring **+0,9 °C** summer **+3,9 °C** , autumn **+1,97 °C**, winter **1,16 °C**

- Change ($^{\circ}$ C) of the mean winter (DJF), summer (JJA), and annual (ANN) temperatures, for the periods 2011–2040, 2041–2070, and 2071–2100, compared to the period 1971–2000, according to scenario RCP8.5I
- The water sector shows a reduction in the water balance in all river basins in Montenegro. The decrease in rainfall and snowfall will drastically affect surface water availability. By the end of the 21st century, a reduction in average annual flow of 27% is expected



Progress made since 2022

Target setting and revising process

National Water Commission expert meetings

2020

Montenegro 27th Party to the Protocol
Water Commission with expanded competence formed

2021

Baseline study on the WASH in health care facilities (WHO)

2022/2023

Baseline study on the WASH in schools (UNICEF)

2023

Study on equal access to water and sanitation for all (UNECE)

2023/2024

Follow-up study on WASH in schools (UNICEF)

2024

Follow-up study on WASH in HCFs and Roma and Egyptian communities (UNICEF);

2023/2026

Equitable access to water and sanitation services for all and in all settings and strengthened climate-resilience in the water and sanitation sector (UNDA)



- Montenegro has revised and updated targets considering climate change for the upcoming reporting cycle with indicators related to climate resilience, prevention, control and reduction of water-related diseases, as required by Article 7 of the Protocol.

- 29 targets are proposed based on Water Commission consultations mostly relying on national and international strategic documents and policies (National Strategy for Sustainable Development by 2030, National strategy in the field of climate change by 2030, Draft National Plan of Adaptation to Climate Change (NAP); GLAAS Report, Montenegro Programme of Accession to the European Union 2024-2025; Budapest Declaration on Environment and Health....);

- Consultations with stakeholders (ministries responsible for the environment, agriculture and water management, health and NGO Green Home) are ongoing;



Climate sensitive targets - examples

Article 6	Target	Indicator	Time frame	Source for Indicator
6.2.f Water supply and sanitation management	2.Development and implementation of Climate Resilient Sanitation Safety Plans/ Integrated Water and Sanitation Safety Plan	2.1 Pilot study conducted in at least one municipality	Q IV 2025	Protocol on Water and Health
6.2.h Quality of treated wastewater	1.Updating wastewater discharge and treatment legislation including provisions to be put in place during risk extreme weather events	1.1The legislative framework related to the quality of wastewater discharged from wastewater treatment plants into the open reservoirs during risk events improved (Law on Municipal Wastewater Management (“Official Gazette of Montenegro” 17/17) improved).	Q IV 2025	Montenegro Programme of Accession to the European Union 2024-2025
6.2.j Quality of water used as sources for drinking, bathing or aquaculture	2.Develop early warning system for bathing waters during extreme weather events	2.1 Monitoring Program for surface bathing waters linked to early warning system developed	Q II 2026	Protocol on Water and Health
6.2.c Population served – Water supply (collective systems or other means)	2.Construction of micro-reservoirs, irrigation infrastructure and rainwater collection for drought resistance	2.1 Construction of micro-reservoirs, irrigation infrastructure and rainwater collection in at least one municipality	Q I 2027	National Sustainable Development Strategy; Third National Communication (TNC) to the UNFCCC

Lessons learnt for future work


Main obstacles identified:

- lack of legislative, regulatory and strategic framework for climate services and disaster risk management;
- unsatisfactory coordination framework;
- insufficient climate information and data for individual sectors;
- limited communication and use of information on climate hazards and risks;
- limited institutional and technical capacities in the public and private sectors;
- limited capacities and financial resources related to the climate risk preparedness and management



Plans for future work in this area

*Based on the draft programme of work for 2023-2025

- Adoption of revised targets on the National level;
 - Transposition of the EU Drinking Water and Waste Water Directives;
 - Continuation of activities on water, sanitation and hygiene in institutional settings and vulnerable groups;
 - Improving human and technical capacities for implementation of climate-sensitive WSPs and SSPs;
 - Improvement of WASH & climate resilience in educational and health care facilities;
 - Development and implementation of Climate Resilient Sanitation Safety Plans/ Integrated Water and Sanitation Safety Plans
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Thank you for your attention!

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Source: National Tourism Organization of Montenegro



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