

Climate Risk Management in Central Asia

Context

Mountain glaciers in Central Asia are rapidly melting due to global warming and climate change. Following the latest reports, they will continue to shrink for several decades. Extreme precipitation is expected to increase in major mountainous regions, with the potential for floods, landslides, and lake outbursts in all scenarios of climate change. The integrity of ecosystems will be damaged, leading to problems with water supply, energy production, and agricultural and forestry production.

Negatively impacting the environment, business, economy and society climate risks know no national boundaries and their consequences affect multiple countries simultaneously. Therefore, governments of neighboring countries need to work together to address shared risks, exchange knowledge and foster joint efforts to shape a climate-resilient trajectory.

Programme name	Climate Risk Management in Central Asia
Commissioned by	German Federal Ministry for Economic Cooperation and Development (BMZ)
Co-funded by	UK International Development
Countries	Kazakhstan, Kyrgyzstan, Tajikistan, Turkmenistan, Uzbekistan
Main partners	Ministry of Ecology and Natural Resources of the Republic of Kazakhstan Ministry of Natural Resources, Ecology and Technical Supervision of the Kyrgyz Republic Committee for Environmental Protection under the Government of the Republic of Tajikistan Ministry of environment protection of Turkmenistan National Committee on Ecology and Climate Change of the Republic of Uzbekistan
Duration	03.2022 - 03.2028

Our objective

Transboundary climate and disaster risk management in Central Asia is improved at local, national and regional levels.

Our measures

The regional programme “Climate Risk Management in CA” is co-funded by UK International Development from the UK government and is part of the regional climate and security initiative “Green Central Asia” of the German Federal Foreign Office. The programme assists relevant government ministries and agencies responsible for water resources management, climate change adaptation and disaster risk reduction in developing and implementing sound policies and plans in their area of work. It facilitates knowledge exchange and coordination

among the participating countries thereby promoting mutual learning and collaboration. Furthermore, the programme team and external experts support the formulation of regional policies and strategies to promote climate-resilient water resources management and disaster risk reduction. To this end, climate risk assessments were conducted in five (5) transboundary water basins in Central Asian countries using participatory approach, actively involving stakeholders such as water basin organizations and local self-governing institutions.

The programme supports the capacity development of governmental environmental institutions and partner organizations on local level with regard to transboundary coordinated and gender-sensitive adaptation to water-related climate risks and their integration into local development planning. Through the Small Grants and Climate Innovation Facility (SGCIF), the programme supported five consortia of



L. to r.: Workshop on the Operation of Solar Pumps for Farms in Mary Velayat. Turkmenistan. 2025.

MODSNOW Simulation Exercise, Tashkent. Uzbekistan. 2026.

Pg 2: Study Tour Along the Danube River. Germany. 2023.

Implementation of the SMART Monitoring and Patrolling System in the Zarafshan National Nature Park. 2026.



Sergey Makarov,
sergey.makarov@giz.de
Phone + 998 (933) 88 34 88

NGOs, international organizations, and government agencies in implementing measures contributing to mitigation, adaptation and resilience to climate change effects. Assistance is also provided to government institutions to foster regional dialogue and address bottlenecks hindering foreign private climate finance investments.

Selected results and impacts

- More than 400 participants from government agencies and regional organizations were able to improve their knowledge and skills in climate risk assessment and the identification of relevant adaptation measures through participation in training seminars, conferences, and thematic study trips.
- Several high-level conferences, such as the Regional Forum-Meeting of Heads of Emergency Agencies of Central Asia and the Central Asian Conference on Climate Change, facilitated the exchange of experiences and discussions on the development of joint strategies in climate change adaptation and disaster risk management.
- Eleven (11) Hydrometeorological Services and main partner organizations received new equipment (computers, servers), software, or special gear for work (such as climbing gear, drones for field research, etc.).
- Five (5) action plans including 30 transboundary coordinated, gender-sensitive adaptation measures have been developed. The implementation of these measures will help to mitigate the consequences of climate change.
- During the climate risk assessment, a total of 25 trainers received expert training enabling them to train participants from local organisations, thus strengthening capacities for climate change adaptation.
- Methodology for Climate risk assessment (CRA) in Central Asia, the Manual for trainers carrying out the CRA trainings on local level and fourteen (14) E-learning Modules on CRA have been developed.

Published by Deutsche Gesellschaft für
Internationale Zusammenarbeit (GIZ) GmbH
(German federal enterprise for international cooperation)
Registered offices Bonn and Eschborn, Germany
Regional Programme "Climate Risk Management in
Central Asia"
Chimkent'skaya Str. 7a, Mirabad District
100029 Tashkent, Uzbekistan
Phone + 998 (933) 88 34 88
www.giz.de

As at May 2026

Printed by

Design Aleksandra Ustinova, Bishkek

Photo credits Programme archive: pages 1, 2
The Zarafshan National Nature Park: page 2

Text Sergey Makarov, Behruz Ilnazarov, Martin Jaeger

GIZ is responsible for the content of this publication.

On behalf of German Federal Ministry for Economic
Cooperation and Development (BMZ)

Co-funded by UK International Development