



GREEN
CLIMATE
FUND



POLICY-BRIEF



SHORT LIST OF REGIONAL PROJECTS IN CENTRAL ASIA

Based on analysis of compliance with the investment criteria of the Green Climate Fund (GCF), a short list of regional projects in Central Asia was elaborated. This list of projects can serve as a guideline for the National Designated Authority (NDA) to submit to the GCF from a regional perspective.

Project pipelines of the following programs were evaluated:

- Regional Program on Environmental Protection for Sustainable Development in Central Asia (REP4SD-CA)
- Fourth Aral Sea Basin Program (ASBP-4), implemented under the International Fund for Saving the Aral Sea
- Water-Energy-Food Nexus Project (WEF Nexus)

Based on them, one pre-feasibility study and project proposal “Scaling up afforestation efforts to increase adaptive capacities to tackle climate change in the Aral Sea Basin” was developed.





PROGRAM FOR INCREASING THE SUSTAINABILITY OF CENTRAL ASIA THROUGH IMPROVING THE EFFICIENCY OF AGRICULTURAL WATER USE AND IRRIGATION SYSTEMS IN THE ARAL SEA BASIN

ASBP-4 Pipeline

- 1.1** Ensuring the optimal operation of the hydraulic facilities while maintaining and restoring water ecosystems in the Syrdarya River Delta.
Location: Delta of the Syrdarya River (Uzbekistan, Tajikistan, Kazakhstan).
- 1.2** Modernization and reconstruction of the use of water resources of the Aral Sea (including all projects proposed by the country for modernization and reconstruction).
Location: Kazakhstan, Turkmenistan, Tajikistan, Uzbekistan.
- 1.3** Ensuring the safety of dams and large hydraulic facilities in Central Asia: capacity building and regional cooperation.
Location: all CA countries - Aral Sea basin
- 1.4** Evaluation of the effect of sedimentation on the efficiency of runoff control and improvement of methods for a comprehensive study and sedimentation forecasting.
Location: reservoirs in CA.
- 1.5** Improvement of the reclamation condition of irrigated lands in the Amudarya and Syrdarya river basins.
Location: all CA countries.
- 1.6** Introduction of automated control systems for technological processes of distribution, accounting and monitoring of water resources in the Syrdarya river basin. Creation of national water information systems as a basis for the creation of a regional information system in future.
Location: Syrdarya river basin, transboundary rivers (Naryn, Karadarya, Chirchik and Syrdarya).
- 1.7** Improving the systems of accounting and monitoring of water resources in the Amudarya and Syrdarya river basins.
Location: CA region.
- 1.8** Modernization of reclamation pumping stations to improve the reclamation condition of lands in the city of Kanibadam and B. Gafurov district from the impact of the Bahri Tojik Reservoir and the implementation of bank protection works on the banks of this reservoir.
Location: Tajikistan (city of Kanibadam and B. Gafurov district).
- 1.9** Reconstruction and improvement of the technical condition of reclamation facilities of interstate importance.
Location: irrigation and collector-drainage systems of Central Asian countries (5 CA countries).
- 1.10** Restoration and development of small local reservoirs in the Amudarya delta.
Location: Delta of the Amudarya River, Uzbekistan.
- 1.11** Introduction of best practices for determination the crop irrigation regimes.
Location: irrigated lands of the countries of the Aral Sea basin (Kazakhstan, Kyrgyzstan, Uzbekistan, Tajikistan and Turkmenistan).
- 1.12** Introduction of water saving and water re-use technologies in water use sectors.
Location: Uzbekistan (the territory of the Republic of Karakalpakstan and Khorezm region).
- 1.13** Capacity building and strengthening of the procurement system of regional and national water management organizations.
Location: countries of the Aral Sea basin.
- 1.14** Water and education: fostering respect for water in the Central Asian states.
Location: all CA countries.

WEF Nexus Pipeline

- 1.1** Ensuring the optimal operation of the hydraulic facilities while maintaining and restoring water ecosystems in the Syrdarya River Delta.
Location: Delta of the Syrdarya River (Uzbekistan, Tajikistan, Kazakhstan).
- 1.2** Modernization and reconstruction of the use of water resources of the Aral Sea (including all projects proposed by the country for modernization and reconstruction).
Location: Kazakhstan, Turkmenistan, Tajikistan, Uzbekistan.
- 1.3** Ensuring the safety of dams and large hydraulic facilities in Central Asia: capacity building and regional cooperation.
Location: all CA countries - Aral Sea basin
- 1.4** Evaluation of the effect of sedimentation on the efficiency of runoff control and improvement of methods for a comprehensive study and sedimentation forecasting.
Location: reservoirs in CA.



ECOSYSTEM ADAPTATION PROGRAM IN THE ARAL SEA BASIN

ASBP-4 Pipeline	2.3	Regional Program for the Conservation of Biological Resources in Central Asia. <i>Location: Central Asian countries.</i>
	2.4	Preservation and restoration of ecosystems in the Amudarya and Syrdarya river basins. <i>Location: basins of the Syrdarya and Amudarya rivers.</i>
	2.5	Organization of afforestation on a system basis in the Aral Sea zone and on the drained bottom of the Aral Sea. <i>Location: CA region, especially countries located in the Aral Sea region.</i>
	2.8	Environmentally sustainable land use and rural livelihoods, including the prevention of desertification, soil degradation and salinization. <i>Location: CA region.</i>
	2.9	Development of eco-friendly innovations and technologies in the Aral Sea zone. <i>Location: CA region, Uzbekistan, Kazakhstan and Turkmenistan.</i>
WEF Nexus Pipeline	2.1	Joint actions on adaptation to climate change, including measures to adapt the most vulnerable sectors: water and agriculture, drinking water, energy, biodiversity, forest, pasture and mountain ecosystems, which consists of two areas: Development of a regional action plan on climate change adaptation (2.11) and dissemination of agricultural practices adapted to climate conditions (2.12). <i>Location: Central Asia.</i>



PROGRAM FOR THE DEVELOPMENT OF REGIONAL RENEWABLE ENERGY SOURCES AND THE IMPLEMENTATION OF MEASURES TO INCREASE ENERGY EFFICIENCY IN CA

WEF Nexus Pipeline	3.5	Development of renewable energy sources and improvement of energy efficiency. <i>Location: CA region</i>
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PROGRAM FOR DISASTER RISK REDUCTION ASSOCIATED WITH FLOODS, MURDROWS AND DROUGHTS IN THE ARAL SEA BASIN

ASBP-4 Pipeline	2.11	Disaster risk reduction associated with floods, mudflows and droughts in the Aral Sea Basin. <i>Location: CA region.</i>
REP4SD-CA Pipeline		SDG 15: Development of a Regional Drought Management Plan. Implementation of the regional action plan to combat desertification: measures, potential, approaches, accounting and evaluation methods, ecosystem restoration schemes, exchange of experience, etc. Cooperation on biodiversity conservation: creation of the Red Book of Central Asia, adoption of coordinated measures, joint research and activities, eco-corridors, specially protected natural areas, wetlands, genetic resources, tugai forests, combating poaching in border areas, etc.
WEF Nexus Pipeline	2.2	2.2 Glaciological study and monitoring of glaciers on the territory of Tajikistan. <i>Location: Tajikistan.</i>



“SCALING UP AFFORESTATION EFFORTS TO INCREASE ADAPTIVE CAPACITIES TO TACKLE CLIMATE CHANGE IN THE ARAL SEA BASIN” – REGIONAL PROJECT



Location:

Kazakhstan, Uzbekistan, Turkmenistan.

NDA:

- Ministry of Ecology, Geology and Natural Resources of the Republic of Kazakhstan;
- Ministry of Agriculture and Environmental Protection of Turkmenistan;
- Ministry of Investments and Foreign Trade of the Republic of Uzbekistan.

The Project aims to increase the resilience of the livelihoods of the vulnerable rural population living in the Aral Sea Basin (ASB). To achieve this, the dry seabed will be reforested to create a green belt, stop dust storms, and prevent increased rates of land degradation and desertification when working with local communities. In addition, the Project will help identify alternative sources of income for vulnerable populations that are resilient to climate change to increase their adaptive capacity.



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