



This project is funded by the European Union

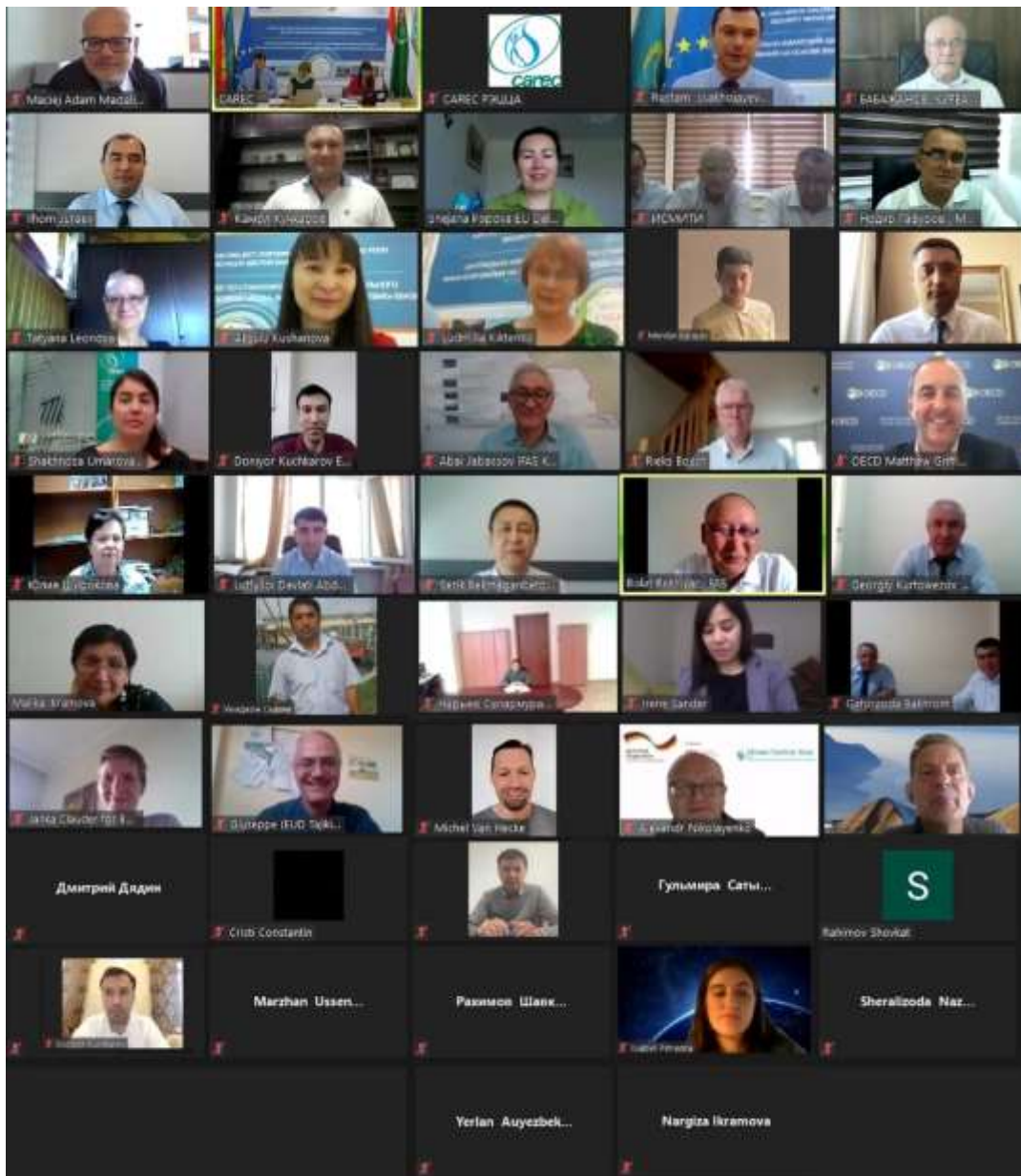


Central Asia Nexus Dialogue Project: Fostering Water, Energy and Food Security Nexus and Multi-Sector Investment (Phase II)

The Second Meeting of the Regional Steering Committee
24 June 2021 | 15:00 – 19:30 | ZOOM Conference

MINUTES

The Second Meeting of the Regional Steering Committee (RSC) of the European Union funded project “Central Asia Nexus Dialogue Project: Fostering Water, Energy and Food Security Nexus and Multi-Sector Investment (Phase II)” (the “Nexus Project” or “Project”) took place online on 24 June 2021 due to the COVID-19 travel restriction.



The meeting had the following objectives: i) to present intermediate results of the demonstration projects; ii) to discuss the challenges in the implementation of the Project's activities and to request support from the RSC members; iii) to receive feedback on the institutionalization of the multisectoral approach; iv) to agree on the Work Plan for the next 6 months.

See the Meeting Concept and Agenda in **Annex 1** for further details.

The meeting was attended by 16 nominated RSC members from Kazakhstan, Kyrgyzstan, Tajikistan, Turkmenistan and Uzbekistan, representatives of the Delegations of the European Union to Central Asian countries, Organization for Economic Cooperation and Development (OECD), the World Bank, the Federal Ministry for the Environment, Nature Conservation and Nuclear Safety of Germany and the Global Nexus Secretariat (GNS). In total, 65 participants took part in the meeting (See the List of Participants in **Annex 2**).

Zafar Makhmudov, Executive Director of the Regional Environmental Center for Central Asia (CAREC), and **Maciej Madalinski**, Head of Political, Press and Information Section of the Delegation of the European Union to the Republic of Kazakhstan, opened the meeting with welcome remarks. Mr Makhmudov noted that there is currently a paradigm shift in thinking towards the multisectoral approach and the Nexus Project is promoting the institutionalization of this approach based on the water-energy-food (WEF) nexus in Central Asia to support these changes.

Maciej Madalinski recalled that in the framework of the EU Green Deal the EU was promoting the Nexus approach to coordinate the management of WEF resources in order to increase efficiency and reduce opportunity costs while protecting ecosystems. Maciej Madalinski highlighted the need to attract public and private capital and to leverage financing from multiple sources to invest in sectors with high returns.

The first session highlighted the results of the project achieved over the past year. **Ludmila Kiktenko**, Project Manager, presented a comparison table that illustrated the completion of all the activities announced during the 1st RSC meeting in October 2020. Further, the Work Plan for the second half of 2021 was presented and agreed upon with the RSC members (See the Work Plan in **Annex 3**).

Aksulu Kushanova, Energy Investment Specialist, presented the current status of the demonstration projects. The transboundary demonstration project between Turkmenistan and Uzbekistan and the national demonstration project in Kazakhstan are being implemented in accordance with the previously agreed Work Plan. However, the proposal for the national demonstration project made by the **State Agency for Water Resources under the Government of the Kyrgyz Republic** did not receive support from the project team and the Delegation of the European Union to Kyrgyzstan because the majority of the proposed activities involved the purchase of equipment. In the meantime, the Project supported the request of the **Ministry of Agriculture, Water Resources and Regional Development of the Kyrgyz Republic** for assistance in the development of the "Strategy of the Kyrgyz Republic on the development of the agricultural sector for 2021-2025" and provided contributions to include the Nexus approach in the "Strategy for the Development of the Water Sector of the Kyrgyz Republic." The implementation of the national demonstration project in Tajikistan will be launched in July 2021 with the involvement of the **Agency for Land Reclamation and Irrigation under the Government of Tajikistan (ALRI)** and the **Ministry of Energy and Water Resources of the Republic of Tajikistan (MEWR)**.

With regard to the implementation of the transboundary demonstration project, there were minor delays with recruiting a subcontractor for the assessment of the sedimentation level and issuing passes to the Tuyamuyun Hydro Complex (THC) for the subcontractor's employees. The problem was solved with the active participation of the RSC members and the support of national partners and the CAREC team in Uzbekistan and Turkmenistan.

Irena Sander, Coordinator of the Global Nexus Secretariat, shared information on the activities of GNS, which results will be replicated in the CA region. In particular, development of conceptual framework

and tools, Nexus principles, selection criteria for Nexus projects, indicators, cost-benefit analysis, and training modules on the multisectoral approach.

Rustam Issakhojayev, Project Specialist, presented an overview of the institutionalization process initiated by GNS. He briefly highlighted the main examples and conclusions presented in the GIZ report on institutionalization of the Nexus approach in Germany, emphasizing that all examples presented were related to the rational use of water resources.

Session 2 was devoted to a detailed discussion of the results of the Nexus demonstration projects presented by representatives of beneficiary countries and consultants engaged. In particular, the following results were presented:

National demonstration project in Kazakhstan: “Afforestation of the dried bottom of the Aral Sea: piloting a closed root system”

Bolat Bekniyaz, Director of the Executive Directorate of the International Fund for Saving the Aral Sea (ED IFAS) in the Republic of Kazakhstan, announced that two saxaul greenhouses and one shadehouse were built on the territory of the EcoAral Scientific and Technical Center in the Aral district of the Kyzylorda region. ED IFAS researchers planted over 2,000 seeds of black saxaul and a small number of seeds of other crops (almonds and pistachios) using a closed root system. At the end of April 2021, the official opening of the greenhouses and shadehouse was held with the participation of the CAREC Project team, which was widely reported in the media. Mr Bekniyaz noted that since the original plan was to build only one greenhouse, ED IFAS co-financed the construction of another greenhouse and the shadehouse with their own funds to increase the number of test seedlings.

It is expected that at the end of October 2021, the seedlings will be planted in open ground on the dried bottom of the Aral Sea. Currently, ED IFAS researchers are monitoring the growth of seeds in greenhouses and the shadehouse. In parallel, a comprehensive assessment of the impact of the new methodology on the use of WEF resources is under development. The first results will be ready by September 2021 (See Photo report in Annex 4).

National demonstration project in Tajikistan: “Improvement of the control and monitoring system of electricity consumption at the pumping stations and modernization of the large pumping stations with the introduction of energy-efficient technology”

Bakhrom Gaforzoda, a consultant to ALRI, presented the objectives of the demonstration project for pumping stations, whose focus has shifted from the local level to the level of the Sughd Province, where pumping stations consume up to 80 % of the total electricity consumption of pumping stations in the country. The demonstration project includes the development of proposals for the introduction of an automated system for the control and monitoring of electricity consumption at 173 pumping stations and the preparation of an investment proposal for the modernization of the Golodnostep pumping station.

The tasks will be performed by five national experts between July 2021 and February 2022, with the political support of ALRI and MEWR, and the technical support of the project “Laboratory of Innovative Solutions for the Water Sector of Central Asia” under the Central Asia Water and Energy Program (CAWEP)¹. The two agencies will jointly discuss the progress and results of the project.

In addition, the Project team draws on the technical expertise of the international Danish company Grundfos, which manufactures and installs pumps and other modern equipment. Grundfos is expected to assist local specialists in analyzing the technical data of pumping stations and provide advice on the most energy-efficient technical solutions.

Transboundary demonstration project “Tuyamuyun Hydro Complex”

¹ CAWEP is a multi-donor trust fund administered by the World Bank with financial contributions from the European Union, Switzerland (through SECO) and the United Kingdom (through DFID) to strengthen the enabling environment to promote energy and water security at regional level and in the beneficiary countries.

The demonstration project is currently carrying out three major tasks, involving international and national consultants, as follows:

Task 1: Assessment of the amount of sedimentation in the Ruslovoe reservoir and compilation of analytical work and forecasts

With the support of the CAWEP project “Laboratory of Innovative Solutions for the Water Sector of Central Asia” the Nexus Project engaged the Science & Research Institute of Irrigation and Water Issues under the Ministry of Water Resources of the Republic of Uzbekistan to assess the sedimentation of the Ruslovoe Reservoir and identify possible technical solutions. **Malika Ikramova**, Water resources management and engineering hydrology specialist, reported that a group of experts successfully took measurements at the Ruslovoe Reservoir from both Turkmen and Uzbek sides and took samples of the silt for bioanalysis to determine its suitability as a raw material.

In view of the fact that the draft report on the amount of sedimentation will be prepared by the second half of August 2021, Ms Ikramova shared the information obtained during the assessment of the sedimentation of the Ruslovoe Reservoir in 2008 and the preliminary conclusions of the current assessment. A steady decrease in the inflow into the Ruslovoe Reservoir was noted due to climate change and the increased number of water consumers. In addition, according to the company, the sludge of the Ruslovoe Reservoir contains a large amount of minerals and metals suitable for use as fertilizer for agricultural crops (See photo report in Annex 4).

Task 2: Holistic assessment of THC and the territories it supports

National experts, **Georgy Kurtovezov** from Turkmenistan and **Kamol Kuchkarov** from Uzbekistan, presented the first results of a holistic assessment and provided quantitative and qualitative indicators of how the population and economic activity of the Dashoguz Velayat of Turkmenistan, the Republic of Karakalpakstan and the Khorezm region of Uzbekistan depend on the effective work of the THC with regards to water conservation and distribution. The final draft of the report will be completed by September 2021.

Task 3: Climate risk and vulnerability assessment at THC and the territories it supports

The international consortium of consultants, which includes international consulting agencies such as SIM, HYDROC and HydroNova, carries out this work as part of the World Bank funded project “Climate Adaptation and Mitigation Program for Aral Sea Basin (CAMP4ASB)”. **Dr Georg Peterson**, Specialist on the Water Resource Management, and **Rieks Bosch**, Technical Expert, presented draft results on the impact of climate change on crop irrigation, filling and evaporation in THC reservoirs.

The draft report will be finalized in August 2021 and will include recommendations on necessary measures for adaptation to climate change in the THC-supported territory. The draft report will be sent to Uzbekistan and Turkmenistan for review and suggestions/comments.

Comments on Session 2

- **Bolat Bekniyaz** noted that the quality of saxaul seeds in the Aral Sea region in general is poor, which also affects the level of habitability of seedlings on the bottom of the dried Aral Sea bed;
- **Abay Japassov** (employee of the ED IFAS) recommended taking into account the potential of groundwater in the Amu Darya River in the assessment of sedimentation in the Ruslovoe Reservoir and in the development of forecasts.

Session 3 was devoted to the discussion of issues and the possibility of institutionalizing the Nexus approach in countries, taking into account the vision of the RSC members within three blocks: 1) the results of the survey of RSC members regarding their vision on the institutionalization of the Nexus approach; 2) the main findings of the report on the institutionalization of the Nexus approach in Germany

(presented by the GNS); and 3) discussion of the possibility and necessity of introducing the Nexus approach in CA countries.

Irena Sander, Coordinator of the Global Nexus Secretariat, shared European experience in applying the Nexus approach in Germany and gave several examples to demonstrate the consequences of ignoring the WEF approach, which provokes conflicts between sectors for resources. Ms Sander emphasized that intersectoral coordination, which also pursues environmental objectives, has played a decisive role in resolving contentious issues on the Rhine. In addition, Ms Sander shared that GNS has started a series of webinars on the institutionalization of the Nexus approach with the participation of international experts and invited participants to join.

Comments on Session 3

Serik Bekmaganbetov (representative of Kazakhstan in EC IFAS) shared his opinion that it is necessary to create a legal basis for the implementation of the multisectoral approach at the regional level, while water resources will play a key role. To maximize mutual benefit, special attention should be paid to transboundary projects. He emphasized that IFAS plays an important role in interstate cooperation on environmental protection and ecosystem restoration in the Aral Sea basin, and the issues considered under IFAS fully meet all the requirements of the Nexus approach.

During Session 4 international partners presented potential opportunities for the region. **Ger Bergkamp** presented Climate Fund Managers (CFM), which is ready to finance investment projects in Central Asia. Mr Bergkamp emphasized the importance of attracting funding from different sources (public and private) and explained the criteria and the project cycle process. He drew the participants' attention to the fact that CFM is looking for specific projects with a clear implementation plan and payback, in particular:

- CFM invests in private sector companies, but joint projects with state-owned enterprises are also considered;
- The expected loan size is between US \$ 10 million and US \$ 50 million, but may exceed US \$ 50 million (maximum 25 % of the total project cost). The company's equity capital is expected to exceed US \$ 20 million (under construction). After signing the deal, the project receives revenue in local currency;
- It is necessary to create / build a clearly defined asset that a shareholder can own;
- Eligible projects must be at the feasibility stage and have a stakeholder;
- CFM is equally interested in water, wastewater, waste-to-energy and renewable energy projects;
- Proposed projects should target / relate to climate change through climate change mitigation (investments made to achieve significant energy savings or emission reductions) or climate adaptation (investments made to increase resilience or adapt to climate change).

Matthew Griffiths, Senior Program Manager of the OECD, announced that the IKI-Nexus project, funded by the Federal Ministry for the Environment, Nature Conservation and Nuclear Safety of Germany, is starting in the CA region. The project will start at the end of this year. The project objectives are currently being developed. **Kairat Yeguzhan**, a specialist at GIZ, gave a brief presentation on the activities of GIZ and invited partners to discuss project applications with their team to determine the possibility of cooperation.

In conclusion, **Ludmilla Kiktenko** thanked the RSC members and partners for their contribution to the implementation of the Project. **Snejana Popova**, Project Officer at the Delegation of the European Union to Republic of Kazakhstan, thanked partners and the Project team for their work in the first year of the Project and recommended a thorough examination of the experts' proposals. Ms Popova noted that the Project provided a unique opportunity for partners to join efforts to implement integrated WEF planning in Central Asia.

Meeting results:

- The Minutes of the 1st Meeting of the RSC of the Nexus Project on 27 October 2020 approved;
- The interim project results from June 2020 to June 2021 accepted and the Work Plan for the next 6 months agreed;
- The relevance of the ongoing Nexus demonstration projects and their contribution to understanding and learning the approach of the WEP Nexus in Central Asia confirmed;
- Recommendations to continue documenting evidence of the benefits of the Nexus approach and draw attention to the possibilities of institutionalization through the legal framework received;
- Examples of institutionalizing the Nexus approach in Germany presented to RSC members;
- The investment opportunities and requirements of the Climate Fund Manager presented including the criteria and conditions of financing.

List of appendices:

Annex 1: 2nd RSC Meeting – concept and agenda

Annex 2: 2nd RSC Meeting – list of participants

Annex 3: Work Plan until the end of 2021

Annex 4: Photo report on the results of demo projects



Central Asia Nexus Dialogue Project: Fostering Water, Energy and Food Security Nexus and Multi-Sector Investment (Phase II)

Second Meeting of the Regional Steering Committee

24 June 2021 | 15:00 – 19:30 | ZOOM

Background

The pressure on and demand for water, energy and food are mounting due to a rapidly growing population, human migration, urbanisation, globalisation, intensified food production, and negative effects of climate change. In Central Asia, substantial water use for agriculture is putting pressure on water resources reaching as high as 90% of the total freshwater withdrawal, while hydropower generation accounts for about 40% of all energy production on the average. The Water, Energy and Food (WEF) Nexus approach can lay a pathway towards a “greener”, more sustainable and efficient development.

The European Union (EU) funded “Central Asia Nexus Dialogue Project: Fostering Water, Energy and Food Security Nexus and Multi-Sector Investment” (the “Nexus Project”) in its Phase II (2020-2023) will build on the results achieved during Phase I (2016-2019). It will focus on developing the evidence base for increased application of the WEF Nexus approach in regional, national and local planning, policy making, regulatory and implementation processes and strengthening regional and national dialogues on the WEF Nexus in five Central Asian States.

In the context of the Central Asia complex geopolitics, a comprehensive and well-structured approach underpinned by targeted practical steps is essential to move WEF Nexus dialogues from theory to action. The WEF Nexus approach is essential for identifying synergies, analysing trade-offs and maximising benefits from the water, energy and food security interlinkages in the region.

There are some barriers impeding the transition to WEF Nexus approach at national and regional levels, including:

- The current sector-based planning practice does not allow for complex, cross-sectoral planning and resource efficiencies;
- Different sectors continue to consider themselves as competing agents for the state budget;
- Finance Ministries are not involved in thematic planning activities;
- Bottom-up approach is still at the initial stage of formation.

Building on the experience gained during Phase I of the Nexus Project and to better support the process of inter-sectoral cooperation, the Regional Environmental Centre for Central Asia (CAREC) will continue to rely on the Regional Steering Committee comprising of the beneficiary countries’ representatives for national support and guidance to ensure the smooth project implementation in their respective countries, disseminate knowledge and sustain the regional dialogue platform among Central Asian countries with regard to WEF security.

Goal of the meeting

The meeting ai to present the deliverables under the Project activities achieved during the first year of implementation and agree on the activities and milestones for the next 6 months, more specifically:

1. Present the interim results of the demonstration projects;
2. Discuss the challenges during the implementation of the Project’s activities and request support from the RSC members;
3. Collect feedback on the institutionalisation of the multi-sectoral approach;
4. Agree on the course of action for the next 6 months.

Format

Due to the COVID-19 pandemic, the meeting will be held online as a round table for interactive discussion.

Zoom: <https://zoom.us/j/94125163025?pwd=QUZSYUtdCdyt3MU1WMjZHaXIjZ3d3dz09>

Zoom Access Code: 059366

Meeting time and date: 15:00 Almaty time (Kazakhstan) on 24 June 2021

Location	Local time
Almaty (Kazakhstan)	15:00
Bishkek (Kyrgyzstan)	15:00
Dushanbe (Tajikistan)	14:00
Ashgabat (Turkmenistan)	14:00
Tashkent (Uzbekistan)	14:00
Brussels (Belgium)	10:00

Language of the meeting

Russian and English are the working languages of the meeting. Simultaneous interpretation will be provided.

Participants

- Regional Steering Committee (RSC) members (nominated representatives of WEF related line ministries);
- International and regional development partners;
- Global Nexus Secretariat (GNS) representative(s).

Agenda

Second Meeting of the Regional Steering Committee

24 June 2021 | 15:00 – 19:30 | ZOOM Conference

Time	Description
OPENING SESSION <i>Moderator: Rustam Issakhojajev, Project Specialist, CAREC</i>	
15:00 – 15:20	Rustam Issakhojajev, Project Specialist, CAREC <ul style="list-style-type: none"> • Technical remarks on online meeting rules • Introduction of the participants (Tour-de-table) • Approval of the minutes of the 1st RSC meeting • Approval of the agenda Group Photo
15:20 – 15:30	Welcome Remarks: <ul style="list-style-type: none"> • Zafar Makhmudov, Executive Director, CAREC • Maciej Madalinski, Head of Political, Press and Information Section, Delegation of the European Union to the Republic of Kazakhstan
SESSION 1: RESULTS ACHIEVED, CHALLENGES FACED AND SUPPORT REQUIRED <i>Moderator: Ludmila Kiktenko, Project Manager, CAREC</i>	
15:30 – 16:20	Ludmila Kiktenko, Project Manager, CAREC – 10 min <ul style="list-style-type: none"> • Project overview and interim results (Logframe) Aksulu Kushanova, Energy Investment Specialist, CAREC – 15 min <ul style="list-style-type: none"> • Debrief on the implementation of the demonstration projects Rustam Issakhojajev, Project Specialist, CAREC – 10 min <ul style="list-style-type: none"> • Debrief on the institutionalization of the Nexus approach Irene Sander, Coordinator of the Global Nexus SecretariatC, GIZ – 10 min <ul style="list-style-type: none"> • Implementation progress of GNS activities in Central Asia Q&A – 5 min
SESSION 2: DEMONSTRATION PROJECTS <i>Moderator: Aksulu Kushanova, Energy Investment Specialist, CAREC</i>	
16:20 – 17:35	Transboundary demonstration project “Tyamuyn Hydro Complex” (Turkmenistan – Uzbekistan) TASK 1: Assessment of the sedimentation volume at the Ruslovoe reservoir

Malika Ikramova, Water resources management and engineering hydrology specialist, Scientific Research Institute of Irrigation and Water Problem under the Ministry of Water Resources of the Republic of Uzbekistan – **25 min**

- The current status of the implementation;
- Analysis and findings during the sedimentation estimation in 2018;
- The Working Plan on the implementation of all tasks;
- Challenges faced and support needed from the RSC members.

Q&A – 5 min

TASK 2: Holistic assessment at the Tyamuyn Hydro Complex

Kamol Kuchkarov, National expert from Uzbekistan – **10 min**

Georgiy Kurtovezov, National expert from Turkmenistan – **10 min**

- First findings of the assessment;
- Working Plan on finalization of the holistic assessment;
- Challenges faced and support requested from the RSC members.

Q&A – 5 min

TASK 3: Climate risk and vulnerability assessment at Tyamuyn Hydro Complex and the territories it supports

Dr Georg Peterson, Specialist on the Water Resource Management, Hydraulic – Engineer, and **Rieks Bosch**, Technical Expert, HYDROC - **15 min**

- First draft results under the climate risk and vulnerability assessment

Q&A – 5 min

17:35 – 17:50

Short break

17:50 – 18:20

“Afforestation of the dried bottom of the Aral Sea: piloting a closed root system” (Kazakhstan)

Bolat Bekniyaz, Director, Executive Board of the International Fund for Saving the Aral Sea in Kazakhstan – **20 min**

- The results achieved and the next steps;
- National and regional importance of the demonstration project;
- Resource savings under the closed root system;
- The state’s plans for the afforestation of the dried bottom of the Aral Sea;
- The regional cooperation on the afforestation of the dried bottom of the Aral Sea.

Q&A – 5 min

	Video summary on the achieved results at the demonstration site – 5 min
18:20 – 18:30	<p>“Improvement of the system of control and monitoring of electricity consumption in pumping stations and to prepare proposals for the modernization of a large pumping station using energy-saving technologies in the Sughd Province in the Republic of Tajikistan”</p> <p>Bachrom Gaforzoda, Consultant, Agency of Land Reclamation and Irrigation under the Government of Tajikistan - 5 min</p> <ul style="list-style-type: none"> • Update on the progress under the national demonstration project <p>Q&A – 5 min</p>
<p>SESSION 3: INSTITUTIONALISATION OF THE MULTISECTORAL APPROACH Moderator: <i>Rustam Issakhojajev, Project Specialist, CAREC</i></p>	
18:30 – 18:55	<p>Suggestions and support from the RSC members on institutionalization of the multi-sectoral approach</p> <p>Irene Sander, Coordinator of the Global Nexus Secretariat, GIZ – 10 min</p> <ul style="list-style-type: none"> • Institutionalisation of the Nexus concept in other Regions. <p>Rustam Issakhojajev, Project Specialist, CAREC – 10 min</p> <ul style="list-style-type: none"> • Summarizing the next steps towards institutionalisation of the Nexus concept in CA, based on the questionnaire. <p>Q&A – 5 min</p>
<p>SESSION 4: PARTNERSHIP OPPORTUNITIES Moderator: <i>Ludmila Kiktenko, Project Manager, CAREC</i></p>	
18:55 – 19:20	<p>Ger Bergkamp, Climate Fund Managers – 15 min Investment funding for the Nexus projects in Central Asia</p> <ul style="list-style-type: none"> • Project and investment criteria; • Project identification and development process by CFM; • Deal signing and partner commitments. <p>Kairat Yegezhan, Expert, Ecologically-oriented regional development in the Aral Sea region, GIZ – 5 min</p> <ul style="list-style-type: none"> • Promoting the experience exchange on afforestation of the dried bottom of the Aral Sea <p>Matthew Griffiths, Senior Programme Manager, OECD – 5 min</p>

- IKI Nexus: cooperation opportunities

CLOSING

19:20 – 19:30

- **Snejana Popova**, Project Officer, EU Delegation to Kazakhstan
- **Ludmila Kiktenko**, Programme Manager, CAREC

**The meeting's conclusions will be detailed in the Minutes to be shared with the participants.*

Zoom: <https://zoom.us/j/94125163025?pwd=QUZSYUtCdYt3MU1WMjZHaXIJZ3d3dz09>

Zoom Access Code: 059366

Meeting time and date: 15:00 Almaty time (Kazakhstan) on 24 June 2021

Location	Local time
Almaty (Kazakhstan)	15:00
Bishkek (Kyrgyzstan)	15:00
Dushanbe (Tajikistan)	14:00
Ashgabat (Turkmenistan)	14:00
Tashkent (Uzbekistan)	14:00
Brussels (Belgium)	10:00



This project is funded by
the European Union



Second Meeting of the Regional Steering Committee

List of Participants

#	NAME	POSITION	CONTACTS
REGIONAL STEERING COMMITTEE OF THE NEXUS PROJECT			
1	Serik Bekmagambetov	Authorised Representative of the Republic of Kazakhstan on the Executive Committee of the International Fund for Saving the Aral Sea (IFAS)	serik.ifas@gmail.com
2	Bolat Bekniyaz	Director of the Executive Board of the International Fund for Saving the Aral Sea in the Republic of Kazakhstan (IFAS)	bbolat@mail.ru
3	Yerlan Auezbekov	Advisor to the International Legal Department of the Ministry of Foreign Affairs of the Republic of Kazakhstan	
4	Bolat Tuyakbayev	Head of Electric Power Development and Integration Unit, Electric Power Development Department, Ministry of Energy of the Republic of Kazakhstan	da.akynov@energo.gov.kz
5	Daniyar Sharip	Lead Expert, Transboundary Rivers Department, Ministry of Ecology, Geology and Natural Resources of the Republic of Kazakhstan	sharip.d@minagri.gov.kz
6	Abdybay Dzhayloobayev	Deputy Director of the State Agency of Water Resources under the Government of the Kyrgyz Republic	djailobaev1961@mail.ru
7	Mirbek Esengulov	Chief Specialist of the Energy Department, State Committee for Industry, Energy and Subsoil Use of the Kyrgyz Republic	mirbek-es@yandex.ru
8	Ulan Shamenaliev	Lead Specialist of Food Security Department, Ministry of Agriculture, Water Resources and Regional Development of the Kyrgyz Republic	
9	Daler Abdurazokzoda	Head of the Department of Water and Energy Policy, Ministry of Energy and Water Resources of the Republic of Tajikistan	doro-1@mail.ru
10	Shafoat Nazifov	Head of Monitoring of pump stations and water economy objects Department Ministry of Land Reclamation and Water Resources of the Republic of Tajikistan	shafoat_63@mail.ru
11	Davlat Lutfulloyi	Deputy Head of Department of Plant-Growing, Ministry	lutfullo1991@yahoo.com

		of Agriculture of the Republic of Tajikistan	
12	Sheralizoda Nazrialo	Director, State Institution "Research Centre for Water Resources Protection" of the Committee for Environmental Protection under the Government of the Republic of Tajikistan	nazrialo@mail.ru
13	Saparmurat Charyev	Chief specialist of the International Water Cooperation Department of the Water Use Department of the State Water Committee of Turkmenistan	diwc.scwm@online.tm
14	Ilkhom Zhuraev	Representative of the Ministry of Water Resources of the Republic of Uzbekistan	i.u.jurayev@gmail.com
15	Nadir Gafurov	Head of Crop Water Consumption and Meteorology Department, Ministry of Agriculture of the Republic of Uzbekistan	ngafurov020@gmail.com
16	Shukhrat Talipov	Head of the Department for Control over Operation of the Building and Hydrotechnical Constructions of Uzbekhydroenergo JSC, Ministry of Energy of the Republic of Uzbekistan	sh.g.talipov@gmail.com
ORGANIZATIONS AND EXPERTS FROM CENTRAL ASIA			
17	Abai Jabasov	Specialist, Executive Board of the International Fund for Saving the Aral Sea in Kazakhstan	jabassov.abai@mail.ru
18	Bahrom Gafforzoda	Consultant, Agency for Land Reclamation and Irrigation under the Government of the Republic of Tajikistan	gbahrom_75@mail.ru
19	Georgiy Kurtovezov	National expert in Turkmenistan	kurtovezovgeorgiy@gmail.com
20	Kamol Kuchkarov	National expert in Uzbekistan	kkuchkarov1977@gmail.com
21	Gulmira Satymkulova	Lead Specialist of the Water Resources Directorate, Head of the Kyrgyz part of the Chu-Talas Water Commission Secretariat	gulmirasatymkulova@gmail.com
22	Dolidudko A.	Doctoral student, Irrigation and Water Research Institute	
23	Malika Ikramova	Specialist in Water Management and Engineering Hydrology, Research Institute of Irrigation and Water Problems	malika.ikramova56@gmail.com
24	Merdan Karaev	Coordinator for the implementation of cross-border demo project from Turkmenistan	karayev994@gmail.com
25	Maruf Mulloev	Ministry of Energy and Water Resources of the Republic of Tajikistan	
26	Narziev J.	Doctoral student, Irrigation and Water Research Institute	
27	Ulugbekov	Doctoral student, Irrigation and Water Research Institute	
28	Urazkeldiev A.	Candidate of Agricultural Sciences, Irrigation and Water Research Institute	
29	Khudaykulov S.	Doctor of Technical Sciences, Professor, Irrigation and	

		Water Research Institute	
30	Shavkatjon Rakhimov	PhD of Technical Sciences, Professor, Irrigation and Water Research Institute	
31	Sherbakov M.	Doctoral student, Irrigation and Water Research Institute	
32	Khusen Gafforov	Candidate of Agricultural Sciences, Irrigation and Water Research Institute	
33	Marzhan Usenova	Candidate of Agricultural Sciences, Irrigation and Water Research Institute	
34	Otabek Ikromov	Candidate of Agricultural Sciences, Irrigation and Water Research Institute	
35	Umidjon Sadiyev	Candidate of Agricultural Sciences, Irrigation and Water Research Institute	
36	Julia Shirokova	Candidate of Agricultural Sciences, Irrigation and Water Research Institute	
INTERNATIONAL PARTNERS			
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38	Alexander Nikolaenko	Regional Adviser for the Transboundary Water Management in Central Asia Programme of the German Agency for International Cooperation (GIZ)	alexandr.nikolayenko@giz.de
39	Janka Clauder	Specialist, Federal Ministry for the Environment, Nature Conservation and Nuclear Safety, Germany (BMU)	
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Annex 3: Work Plan until the end of 2021

EVENTS	2021						
	June	July	August	September	October	November	December
PROJECT ADMINISTRATION							
Mid-term report (descriptive and financial) for the first year of the project June 2020-June 2021							
Planning for the second year and receipt of the second tranche from EC							
Building collaboration to expand project activities							
3rd meeting of the RSC							
Coordination with EC delegations and partners							
IMPLEMENTATION OF DEMO PROJECTS							
Transboundary Demo Project “Tuyamuyun Hydro Complex”							
2nd meeting of the Technical Working Group							
3rd meeting of the Technical Working Group							
Measurement of volume of siltation in Uzbekistan and Turkmenistan							
Assessment of siltation in the Ruslovoe reservoir in the main area (technical report)							
Building 50 years ahead of the expected dynamics of the loss of the channel reservoir capacity (forecasts)							
Assessment of the impact of siltation and its growth on the distribution of water resources for the energy and irrigation needs of Turkmenistan and Uzbekistan (forecasts)							
Recommendations for reducing the amount of siltation of the Channel reservoir							
Submission of the first draft report on the Climate Vulnerability and Risk Assessment at Tyamuyun Hydro Complex for comments							
Submission of the final draft report on the assessment of climate vulnerability and risks at Tyamuyun Hydro Complex for comments							
Submission of draft holistic assessment by Turkmenistan and Uzbekistan national experts							
Submission of the final holistic assessment							
Conduction of the Cost and Benefit Analysis at Tyamuyun Hydro Complex by the Global Nexus Secretariat							
Demo project in Kazakhstan on afforestation of the dried bottom of the Aral Sea							
Monitoring the growth of saxaul seeds in a closed root system							
Planting saxaul seedlings on the drained bottom of the Aral Sea							
Survival monitoring							
Final integrated assessment report							
Demo project in Tajikistan for pumping stations in Sughd Province							
Round table in Dushanbe (demo launch)							
Development of a comprehensive assessment of pumping stations at the national level (draft report)							
Audit of electricity meters in pumping stations (draft report)							

Development of the concept of an automated monitoring system for consumed electricity in pumping stations							
Development of the Manual on Data Communication, Monitoring and Analysis of Collected Data							
List of recommended activities for the launch of ASMPE-NS based on ALRI							
Preparation of a draft investment proposal for the implementation of the automated system							
Preliminary investment offer with various payback options for replacing pumping units							
Discussion of draft results at the NKID RT							
The final draft investment proposal for the modernization of the Golodnostep pumping station in the Zafarabad district of the Sughd Province	February 2022						
Demo project in Kyrgyzstan to institutionalize the Nexus approach at the national level							
Monitoring of the negotiation process of the Strategy for the Development of Agriculture of the Kyrgyz Republic (2021-2025) and contribution to the Nexus approach							
Monitoring of the negotiation process of the Water Sector Development Strategy in the Kyrgyz Republic (2021-2025) and contribution to the Nexus approach							
Finding other opportunities to incorporate the approach in policy and guidance documents							
Institutionalizing the Nexus Approach							
Study of European experience in institutionalizing the Nexus approach and identifying opportunities in Central Asia							
Nexus game, transfer of game and methodology in CA universities							
Negotiations with potentially interested partners							
Global Nexus Secretariat (GNS)							
Series of webinars on institutionalizing a multisectoral approach							
Assessment of capacity-building needs							
Information support							
Update of news and posting of information on the Nexus site at GNS and CAREC							
Development of article(s) for scientific journals							
Contribution to the development of the scientific documentary film "Return of the Aral Sea" through Kazakhfilm							

Annex 4: Photo report on the results of demo projects

Kazakhstan: "Afforestation of the dried bottom of the Aral Sea: piloting a closed root system" (construction of 2 saxaul greenhouses and 1 shadehouse)



Transboundary demonstration project “Tuyamuyun Hydro Complex”



Assessment of the amount of siltation in the Ruslovoe Reservoir



Conducting a comprehensive assessment in the territories supported by the THC

Technical support for the institutionalization of the Nexus approach in Kyrgyzstan.

Strategy of the Kyrgyz Republic on the development of the agricultural sector for 2021-2025”

