



nexus



This project is funded by the European Union, implemented by CAREC in cooperation with IUCN, supported by EC IFAS  
Проект финансируется Европейским Союзом, реализуется РЭЦЦА в сотрудничестве с МСОП при поддержке ИК МФСА

## FOSTERING WATER, ENERGY AND FOOD SECURITY NEXUS DIALOGUE IN CENTRAL ASIA

## ПРОДВИЖЕНИЕ ВОПРОСОВ ВЗАИМОСВЯЗИ ВОДНОЙ, ЭНЕРГЕТИЧЕСКОЙ И ПРОДОВОЛЬСТВЕННОЙ БЕЗОПАСНОСТИ В ЦЕНТРАЛЬНОЙ АЗИИ

#NexusCentralAsia



✉ [emp@carececo.org](mailto:emp@carececo.org)

📘 [@carececo](https://www.facebook.com/carececo)

🐦 [@recca\\_carec](https://twitter.com/recca_carec)

[www.carececo.org](http://www.carececo.org)

# Water, Energy and Food Security Nexus in Central Asia: Progress, Lessons and Next Steps

3<sup>rd</sup> Executive Committee Meeting & Partners Meeting  
Nexus Dialogues Programme, Phase I  
05 & 06 June 2019, Bonn, Germany

Ludmilla Kiktenko, EU Nexus Project Manager  
CAREC Environmental Management Programme



Funded by  
the European Union

# Nexus Dialogue in Central Asia

## first phase Dec.2016 – Dec.2019

**Purpose:** To create a multi-sectoral enabling environment to facilitate sustainable investments for increased water, energy, food security and ecosystems in Central Asia

**Total budget :** €1.52 mln. EU grant: €1.3 mln. CAREC co-funding: €220 K

**Implementers :** CAREC – coordinator; IUCN – international expertise

**Regional partners:** EC IFAS, BWO «Amydaria», BWO «Syrdaria»

**National partners:** Ministry of energy and water resources, economy, agriculture and environment

### 1 National level

Intersectoral working groups  
Experts and expert works  
Testing projects

### 2 Regional level

ASBP-4 development process  
& document  
Regional dialogues  
Training Workshops  
Steering committee

### 3 Investment projects portfolio

Project Portfolio for Nexus II  
and for ASBP-4  
IFIs involvement



Funded by  
the European Union

## Current Results (after 2,5 years)



# ✓ Four National multisectoral dialogue platforms

## Kazakhstan



## Turkmenistan



## Uzbekistan



## Tajikistan







# ✓ Regional Steering Committee

Funded by  
the European Union



3 RSC, 12 Oct. 2018, Astana

1 RSC, 13 March 2018, Tashkent



2 RSC, 7 June 2018, Tashkent





# ✓ Mainstreaming to Regional Processes and Programmes

Funded by  
the European Union

## Regional working group on ASBP-4



## Working group of partners for REP4SD





Funded by  
the European Union

# ✓ WEF Nexus approach in Regional Intergovernmental Programmes



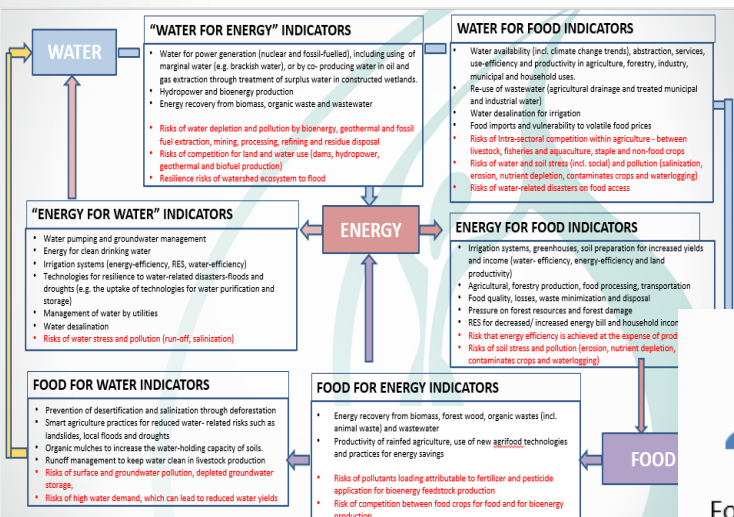




# ✓ Selection Indicators, Methodology

Funded by the European Union

## WEF Nexus Indicators




## Selection methodology for investment projects



Formation of Inter-sectoral Working Group (ISWG)

STAGE 1



Desk research on regional, national and sectoral strategies and investment programs

STAGE 2



Identification of WEF nexus interlinks

STAGE 3



Identification of Transboundary / regional focus

STAGE 4



Development of WEF criteria

STAGE 5



# ✓ Project Portfolio

Funded by  
the European Union

**Long List = 28 projects; Draft List for ASBP-4 = 8 projects; Draft List for Nexus-2 = 8 projects**

	Project name	Developers	Budget
IWRM	1. Modernization and introduction of SCADA in the Syrdarya River Basin	BWO «Syrdarya»	10 mln USD
	2. Improvement of ameliorative condition of irrigated lands in the basins of Amydarya and Syrdarya rivers through improvement of irrigation and collector-drainage networks	AMI, MWR TAJ, MinAgro KAZ	61 mln USD
	3. Dam safety and other hydrotechnical facilities at the Central Asia: development of the potential and the regional cooperation	BWO «Syrdaria»	6 mln
	4. Improvement of the water resources in the Amudarya River Basin through the rehabilitation and modernization of the water facilities and interstate legislative framework	BWO «Amydarya»	35 mln USD
Environ- ment	5. Rehabilitation of the ecosystems of Aral Sea to combat the desertification and land degradation: forestation, collector-drainage system, nurseries, capacity building	IFAS Branch Kaz, Uz SIC ICSD Tkm	115 mln USD
	6. Integrated disaster risk management in the Aral Sea Basin	TAJ, KAZ	11 mln USD
Socio- economic	7. Ensuring sustainable water and energy supply in rural areas of Central Asia	KAZ, TAJ, SIC ICSD, Tkm	4 mln
	8. Integrated development of eco- and agro-tourism with elements of ethno-tourism in specially protected natural areas in the Aral Sea Basin: routes & infrastructure	IFAS Executive, Kaz, MinAgro Kaz	10 mln
Institutional develop t	9. Working out the question on creation of the water-energy consortium in Central Asia and the	Kaz, SIC ICSD, EC IFAS	3,5 mln



## ✓ Pilot projects for testing the benefit

<b>Kazakhstan</b>	<b>Technical consultations</b> on necessary actions to build interest among Central Asian countries in creation of Water-Energy Consortium
<b>Tajikistan</b>	Preparation of <b>a manual on the rules for the use of dams</b>
<b>Turkmenistan</b>	Sardob <b>reconstruction</b> (traditional construction of water saving in the desert for the needs of animal husbandry in Turkmenistan)
<b>Uzbekistan</b>	Technical <b>assessment</b> of the pumping stations under the Ministry of Water Resources (1693 units) followed by development of the investment <b>proposal</b> on improving the automatization of monitoring system for electricity consumption
<b>Project team</b>	<b>Cost-benefit analysis</b> (modelling exercise) and first drafts of financial analysis of a few Nexus investment projects to serve as a sample for Nexus evidence base



# ✓ Case Studies, Assessments, Publications, Seminars

Funded by  
the European Union

Regional seminar Astana, 08.10.18

Seminar for BWO "Amydaria", 28-29.11.18



Expert reports, reviews and publications



<http://carececo.org/en/projects/tsentralno-aziatskiy-dialog-po-ispolzovaniyu-vozmozhnostey-mnogosektornogo-finansirovaniya-putem-u/>  
<https://www.water-energy-food.org/news/2017-06-23-regional-nexus-dialogue-central-asia-first-national-nexus-consultations-in-kazakhstan/>  
<https://www.facebook.com/nexusresourceplatform/>, <https://www.facebook.com/carececo/>





# ✓ Study Tour: Experiences from Danube and Sava Rivers

Funded by  
the European Union

- Learning from European river basins
  - International Commission for the Protection of the Danube River
  - International Sava River Basin Commission
- Two site visits
  - Hydropowerplant Freudenau
  - Lonjsko Polje Nature Park
- Training Workshop on how to structure a nexus process and development of a Nexus Roadmap for Central Asia



Study tour and  
seminar, 11-18.05.19

✓ CALP-2017, 2018



✓ CACCC 2018



✓ HLC "Water for SD", 21-22 June, 2018 Dushanbe



✓ Urban Nexus Workshop, 22-23 May 2019 Bangkok



<http://carececo.org/en/projects/centralno-aziatskiy-dialog-po-izpolzovaniyu-voznovostey-mnogosektoralnogo-finansirovaniya-puteu-uz/>  
<https://www.water-energy-food.org/news/2017-06-23-regional-nexus-dialogue-central-asia-first-national-nexus-consultations-in-kazakhstan/>  
<https://www.facebook.com/nexusresonanceplatform/>, <https://www.facebook.com/carececo/>



## ✓ Communication and resources

<https://digital.iucn.org/water/water-energy-and-food-security/>

# Water, Energy and Food Security

Fostering a Nexus Dialogue in Central Asia

© International Union for Conservation of Nature (IUCN) and Regional Environmental Centre for Central Asia (CAREC)

<http://carececo.org/en/projects/tsentralno-aziatskiy-dialog-po-ispolzovaniyu-vozmozhnostey-mnogosektoralnogo-finansirovaniya-putem-u/>  
<https://www.water-energy-food.org/news/2017-06-23-regional-nexus-dialogue-central-asia-first-national-nexus-consultations-in-kazakhstan/>  
<https://www.facebook.com/nexusresourceplatform/>, <https://www.facebook.com/carececo/>



**Thank you  
for attention!**

Ludmilla Kiktenko  
[lkiktenko@carececo.org](mailto:lkiktenko@carececo.org)