

Water-Food-Energy-Ecosystems Nexus

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Main activities

Dissemination of the Publication “Solutions and investments in the water-food-energy-ecosystems nexus: A synthesis of experiences in transboundary” (UNECE, 2021) at various events

Work on projects on the ground:

- Finalization of project “Promoting the Sustainable Management of Natural Resources in Southeastern Europe, through the use of Nexus approach” (2019-2021)
- Preparation of project “Regional mechanisms for the low-carbon, climate-resilient transformation of the energy-water-land Nexus in Central Asia” (2022-2027)

Promotion of cooperation between the water and energy sectors and the Publication “Towards sustainable renewable energy investment and deployment: Trade-offs and opportunities with water resources and the environment” (UNECE, 2020)



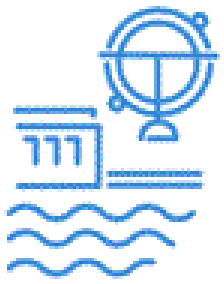
Main outcomes in South East Europe

Finalization of Nexus Assessments in Drina and Drin River Basins, as well as Albania. For each assessment:

- **Nexus Assessment Reports**, with focus on selected issues:
 - Sustainable Energy (quantitative), Flow Regulation // Drina
 - Hydropower & Floods (quantitative), Forestry & Biomass // Drin
 - Trade-offs and synergies across the Nexus-related sectors // Albania
- **Nexus Roadmaps** indicating directions to address nexus issues through country, basin, regional level policy
- **Project Concepts for Nexus Interventions**, with focus on:
 - Improving sediment management; Outline of a Climate Adaptation Strategy //Drina
 - Nature based solutions for Wastewater Treatment; Sustainable forest management and modern biomass production // Drin
 - Floating solar on reservoir; Precision agriculture practices //Albania

Events:

- 11 May 2022 3rd Steering Committee meeting of the Drina Nexus Assessment
- 1 June 2022 23rd meeting of the Drin Core Group
- 17 June 2022 2nd Nexus Consultation meeting for Albania




Increased visibility “outside” the water sector



Promotion of transboundary water cooperation and basin approach among stakeholders from energy, climate, private sectors, e.g.:

- 2021 Forum on energy and water modernization (Central Asia - UNECE and ESCAP)
- 2021 Workshop on Social, Economic & Environmental Implications of Energy & Climate Strategies (Eastern Europe - IAEA)
- 2022 Global Symposium on Water and Energy Solutions (Global Network - UNDESA and ITAIPU Binacional)



International Forum
On
Innovating and Modernizing Energy and Water in Central Asia

Date: November 1-3, 2021

SAVE THE DATE

Global Symposium on Sustainable Water and Energy Solutions

13-15 JUNE 2022
ITAIPU BINACIONAL BRAZIL / PARAGUAY | HYBRID

CONVENED BY
DEPARTMENT OF ECONOMIC AND SOCIAL AFFAIRS

HOSTED BY
ITAIPU BINACIONAL

IN PARTNERSHIP WITH
SUSTAINABLE WATER & ENERGY SOLUTIONS NETWORK

Register for virtual participation: bit.ly/GlobalSymposium2022 by 10 June.
Apply for side events: bit.ly/GlobalSymposiumSideEvents2022 by 3 June.
For questions and inquiries, please contact Ms. Nadine Salame at salame1@un.org
<https://www.un.org/en/waterenergynetwork>





Lessons learned for future work



- Nexus solutions and investments need to build on **common understanding** and **mutual trust**, as well as **political commitment** to work together across sectors
- Nexus solutions and investments can promote transboundary water cooperation and **conflict prevention**
- Operationalization of nexus solutions and investments passes through the **nexus proofing/upgrading of**:
 - strategies, policies, and projects at basin level (how can basin development plans be nexus proofed?)
 - legislation (transboundary water agreements and/or arrangements)
- **Water-Energy cooperation** and coordination a key to tackle climate change at basin level (mitigation and adaptation)
- Opportunities of leveraging on **synergies between nexus and other areas of work**
 - Climate adaptation
 - Financing cooperation
 - Source-to-Sea approach



Planned activities for 2022-2024



- **2 meetings of the Task Force** on the Water-Food-Energy-Ecosystems Nexus (December 2022 and 2023)
- Promotion of the **methodology** for transboundary nexus assessment – production of a leaflet (in ENG FRE RUS SPA)
- Continue support/assistance in the **operationalization on nexus solutions and investments**- in up to four regions/basins, through:
 - identification of projects and of financing options
 - development and/or operationalization of cross-sectoral regional/basin strategies with e.g. focus on climate
 - opportunities from past assessments and partnerships
- Nexus work in Central Asia through the project: **“Regional mechanisms for the low-carbon, climate-resilient transformation of the energy-water-land Nexus in Central Asia”**
 - Implemented by OECD, UNECE, SIC-ICWC, EBRD, FAO, funded by Germany’s
 - Focus on Kazakhstan, Kyrgyzstan, Tajikistan, Turkmenistan, and Uzbekistan
 - International Climate Initiative (IKI) from the German Federal Ministry for Environment.
 - 2022 -2027 // expected start October 2022



Ministry for Foreign Affairs of Finland



Austrian Development Agency



Federal Ministry for the Environment, Nature Conservation and Nuclear Safety



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BETTER POLICIES FOR BETTER LIVES



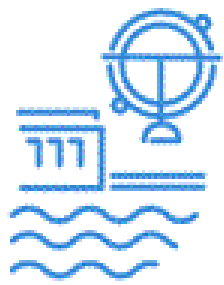
European Bank for Reconstruction and Development



United Nations



Sustainable Water and Energy Solutions Network



Thank you



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For more information: <https://www.unece.org/env/water/nexus>



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