Nexus solutions in South-East Europe

Project Documents prepared under the SEE Nexus Project

Nexus Consultation Meeting in Lebanon, 24-25 August 2022
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The SEE Nexus Project (2017-2022)

• Funded by ADA, implemented by GWP-Med & UNECE
• Regional Component for all countries in the Region
• Focused activities in:
  – 2 transboundary basins: Drin & Drina
  – 1 country: Albania
✓ Participatory consultations
✓ Nexus Assessments
✓ Capacity Building Workshops
✓ Gender activities
✓ Policy Roadmaps
✓ Project Documents for 6 interventions
#1: Synergies between HPP & farmers at the Gjanci reservoir in Albania

- Dual use of same water from the reservoir:
  - Electricity generation in HPP
  - Irrigation of agricultural plots

- Complex ownership/administration, insufficient Water Use agreement, dated infrastructure...

✓ Recommendations for institutional coordination and revision of Agreement

✓ Improved irrigation management (role for WUO, sensors, efficient methods, mobile applications)

✓ Infrastructure interventions (rehabilitation of canals and other assets)

✓ Small photovoltaics to power pumping stations
#2: Introducing Precision Agriculture practices in Albania

- Very small & fragmented plots, low mechanization, poor infrastructure, lack of market opportunities

- Crop growth monitoring
- Harvest date decision
- Variable rate application of inputs
- Larger scale analysis for crops and drought

✓ Technical solutions for 3-4 pilot sites, depending on crops & inputs
✓ Financing options
#3: Nature-Based Solutions for Wastewater Treatment in 2 settlements in the Drin River Basin

- Vast majority of rural settlements not connected to sewerage or WWT
  - 2 settlements identified in consultation with stakeholders and authorities:
    - Shtiqen near Kukes, Albania (5300 inhabitants, no sewerage)
    - Raushiq near Peja, Kosovo* (1600 inhabitants, existing sewerage)
  - Multi Criteria Analysis to identify appropriate technology
    - French Reed bed + Vertical flow wetland (4000 m² and 2000 m² respectively)
  - Pre-feasibility studies including Financing options
#4: Modern biomass and sustainable forest management in the Drin River Basin

➢ Great potential but limited experience, supply chains, quality control
  • Wood chips supply chain for public buildings heating in Debar (North Macedonia)
  • Wood pellet supply chain and quality certification for plants in Niksic (Montenegro)
✓ Pre-feasibility studies
✓ recommendations for sustainable forest management practices
✓ proposals for functional value chains
✓ awareness raising campaigns
✓ financing options
#5: Improving Sediment Management in the Drina River Basin

- Significant sediment issues in the basin, affecting all sectors and infrastructure, mainly due to anthropogenic effects
  - Deforestation, agricultural practices, intensive grazing, urbanisation, structures affecting natural flow...
  - No systematic transboundary measuring/monitoring

✓ Improved sediment monitoring
  - Harmonised methodology for erosion mapping
  - Additional quantity/quality monitoring stations
  - Updated data on deposits in reservoirs
  - Improved data sharing

✓ Increased capacities for sediment mgmt
  - Handbook of measures (4 pilots implemented)
  - Basin-wide Sediment Management Plan
  - Capacity building & awareness raising
#6: Outline of Climate Adaptation Strategy for Drina Basin

- Adaptation identified by SHs as a key challenge / priority
- Brief Outline for Sava basin (2018) as a blueprint
- **Current climate adaptation policies in the riparians**
- **Climate change scenarios for the region**
- **Expected impacts on sectors, settlements, disaster risk reduction, ecosystems**
- **Methodological approach and priorities for vulnerability and risk assessments**
- **Principles, typology and priorities for adaptation measures**
- **Sources, instruments and options for financing**
Thank you for your attention!

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