Assessments of the Water-Food-Energy-Ecosystems Nexus and Response Measures in Transboundary Basins: a Global Stock-taking Workshop

To be held in Geneva, 6-7 December 2016
Room XI, Palais des Nations, Geneva, Switzerland, starting at 10.00 a.m. on Tuesday, 6 December 2016

PROGRAMME

6 December, 1st day

10:00-11:00 Opening session

Moderator: Seppo Rekolainen, Finnish Environment Institute

Welcoming words from organizing partners:
- Andrey Vasilyev, Deputy Executive Secretary, United Nations Economic Commission for Europe
- Thomas Stratenwerth, German Federal Ministry for the Environment, Nature Conservation, Building and Nuclear Safety
- André Liebaert, European Commission

Keynote speech:
- Mark Howells, Royal Institute of Technology (KTH)

11:00-13:00 Session 1: Key methodologies and initiatives of relevance for assessing nexus issues in transboundary basins
The objective of this session is to review a number of methodologies and approaches that Governments, basin organizations and practitioners could consider applying in order to better understand, analyse or have a dialogue about inter-resource dynamics and implications of management measures on other sectors/resources.
11:15-13:00 Market place of methodologies and approaches, and their application

The aim of the market place is to present and discuss a wide array of methodologies and approaches, and their application in an informal setting (roundtables). There will be three rounds. Participants can thus attend three round tables.

- Developing Integrated Assessment Modelling and future scenarios to assess trade-offs and synergies between water energy and food at global and regional scales, Simon Langan, International Institute for Applied Systems Analysis
- Exploring nexus interlinkages at different scales: implementing Climate, Land (Food), Energy and Water strategies framework at city, national, regional and global levels, Mark Howells, KTH-dESA
- Addressing Water–Energy–Food–Ecosystem NEXUS local challenges and needs with tailored ICT tools: e-NEXUS Module, Cesar Carmona-Moreno, Joint Research Centre European Commission (JRC)
- Participatory Water–Energy–Food–Ecosystem Nexus in Transboundary Basins, Annukka Lipponen, UNECE /Lucia de Strasser, UNECE consultant
- The Water-Energy-Food Nexus: An approach in support of food security and sustainable agriculture, Marlos de Souza, Food and Agriculture Organization (FAO)
- An interactive simulation model for equitable and coherent transboundary Sustainable Development Goal policies, Gunda Zuelich, Millennium Institute
- UNU-FLORES Nexus assessment approach: steps involved and criteria that make it a nexus case, Tamara Avellán, UNU-FLORES
- Place-based water-energy-food security: Lessons from two approaches, Dimple Roy, International Institute for Sustainable Development
- Establishing Principles and Action Fields for Nexus Mainstreaming in German Development Cooperation, Detlef Klein, German Agency for International Cooperation (GIZ) on behalf of the German Federal Ministry for Economic Cooperation and Development (BMZ)

13:00-15:00 LUNCH BREAK

15:00-18:00 Session 2: Lessons from basins which have been assessed / studied

This session will take stock of experiences gained and discuss findings and lessons learned from river basin nexus assessments or regional assessments carried out. Beyond the cases presented, experience is also gathered from the participants through discussions. The session will also draw some conclusions and recommendations from the basins assessed or studied that may have value more generally for addressing intersectoral issues.

Moderator: Thomas Stratenwerth, Germany

- Water–Energy–Food and Ecosystems: a nexus to be strengthened in order to reduce hunger in the Mekrou transboundary basin, Arnaud Adjagodo, Global Water Partnership Benin
- Nile, Tom Waako, Nile Basin Initiative

Small group discussions: Buzzing on lessons learned, challenges and opportunities addressing intersectoral issues. (20 minutes)

- Sava, Annukka Lipponen, UNECE
- Aral Sea, Marlos de Souza, FAO
Plenary discussion:
Which lessons could be applied in your basin or organisation?
Which conclusions and recommendations can be formulated for assessing nexus issues?

7 December, 2nd day

09:30-12:30 Session 3: Nexus solutions

There are different types of synergetic actions or solutions to address intersectoral issues, ranging from institutional arrangements, to information, instruments (e.g. economic and policy instruments), infrastructure, international coordination and cooperation. In this session, emerging good practices and effective solutions will be discussed in the light of some examples.


- Overview: Fuzzy to Functional: Balancing the nexus through the SDGs, James Dalton, IUCN
- Examples
  - Cross sectoral cooperation in transboundary basins in GEF projects, Astrid Hillers, Global Environment Facility
  - Analytical toolbox of the UN-DESA, Silvia Fernández, Unit for Analysis of Social and Economic Policies (UDAPE), Bolivia
  - Financing tools for intersectoral approaches, Stefanie Lindenberg, European Investment Bank
  - Coordination with the food sector and implementation of the SDGs, Rabi Mohtar, Texas Agricultural & Mechanical University (remote presentation)

Small group discussions: Buzzing on the application, replicability and benefits of the solutions (20 minutes)

- Socio-environmental responsibility in Paraguay, benefits and cost sharing from energy generation in a binational facility, Moisés Ayala, ITAIPU Binational
- Environmental flows and actions/approaches to make hydropower more sustainable, Angela Klauschchen, Global Water Partnership
- Sava Zagreb project: coordinated flow regulation to support multiple uses, Dubravko Ponoš, Director of Program Sava Ltd
- Water Risk Filter, Louise Gallagher, Luc Hoffmann Institute/WWF

Plenary discussion: Emerging good practices

12:30-14:30 LUNCH BREAK

14:30-16:30 Session 4: Basin cases and how a nexus approach could be put into practice

**Moderator: Astrid Hillers, Global Environment Facility**

Group discussions will explore which approaches and solutions could be relevant and useful for specific transboundary basins interested in in assessing intersectoral opportunities and applying a nexus approach. The sub-regional Groups will discuss how a nexus approach can be put into practice in resource management, at the basin level in particular, and how intersectoral coordination can be supported, resource use efficiency promoted etc.
In groups, introductions to the sub-regions by

- Balkans: Drin, *Dimitris Faloutsos, Global Water Partnership Mediterranean*
- Western Africa: *Cesar Carmona-Moreno, JRC*
- Eastern Europe: Dniester, *Tamara Kutonova, UNDP Moldova*
- Central Asia: *Ludmila Kiktenko, Regional Environmental Center for Central Asia / UNECE*
- Caucasus: *Bo Libert, UNECE*
- Middle East and North Africa: Development of Nexus Policies on behalf of a regional (non-basin) Organisation, case of League of Arab States, *Detlef Klein, GIZ*
- Middle East and North Africa: North Western Sahara Aquifer System, *Djamel Latrech, Sahara and Sahel Observatory*
- Latin America: *Andrés Sánchez, Organization of American States*
- South-Eastern Asia: *Pongsak Suttinon, Chulalongkorn University, Thailand*

Report back to plenary

**16:30-17:00 Concluding session: Conclusions and next steps**