Seventh meeting of the Task Force on the Water-Food-Energy-Ecosystems Nexus

ACTO: ADVANCING TRANSBOUNDARY NEXUS COOPERATION IN THE AMAZON BASIN

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WATER RESOURCES
Regional and global water reserve
Regulates global and regional climate
(carbon absorption and evapotranspiration processes)

HYDROLOGY
Output flow: 220,000 - 300,000 m³/s in the rainy season.
Length: 6,992 km
Hydrographic basin area:
6,118,000 km²
Main contributors: Putumayo, Japurá and Negro River (north slope), Juruá, Purús, Madeira, Tapajós and Xingú (south slope).

POPULATION
Amazon Basin: 44 million inhabitants.
420 indigenous peoples.
370 languages.

ECONOMIC ACTIVITIES
53% agricultural activities.
31% trade.
16% manufacture.
Actions within the framework of the Amazonian Strategic Cooperation Agenda (ASCA)
Towards an IWRM in the Amazon Basin in the framework of ACTO

1. A shared regional Vision on the Integrated and Sustainable Management of water resources in the Amazon Basin, the largest freshwater system in the planet, discharging up to 15-20% of freshwater into the ocean.

2. A Transboundary Diagnostic Analysis (TDA) assessment of the priority water issues in the region, support of 500 institutions from the 8 countries.

3. A Strategic Action Programme (SAP) for the sustainable management of water resources in the Amazon Basin.

Vision: “Water resources are strategic for the equitable and sustainable development of the peoples of the Amazon.”
Priority transboundary issues identified in the TDA

1. Water contamination
2. Deforestation
3. Loss of biodiversity
4. Extreme hydro-climatic events
5. Erosion, sediment transport and sedimentation
6. Soil use change
7. Loss of glaciers
8. Adoption of an IWRM approach to guide the implementation of policies for water governance with regional perspective.
   - The riparian countries recognize the interconnection of water, land and related resources and the need to coordinate across different sectors.
   - Need to advance towards an Amazonian regional approach centered on the importance of considering the link between water, energy, food and ecosystems in an IWRM context.
9. Insufficient IWRM
Development of a regional hydrological platform and a multi-sector nexus model for the Amazon Basin.

Inter-ministerial and expert dialogue roundtables on the water-food-energy-ecosystem nexus to increase climate resilience and better achieve SDG 9 on resilient infrastructure and sustainable energy.

Risk analysis, environmental impact assessment and best practices to minimize the impact of infrastructure on water resources and the environment.
Development of a regional hydrological platform and a multi-sector nexus model for the Amazon Basin.

**Components**

1. Stakeholder engagement (Mapping and engagement, Scenario definition)
2. Development of Analytical tools (Hydrological modeling (HydroBID), Nexus modeling (WHAT-IF), Water Quality Analysis)
3. Nexus portfolio analysis (Investment needs, Additional studies)
4. Visualization and Reporting (Dashboard, ORA).

Cascade Approach for Amazon Basin Hydrologic and Nexus Modeling.
Development of a Nexus approach in the context of SAP implementation

- Encourage transboundary cooperation in the Amazon Basin and help countries optimize the use of their resources and develop their capacity to address cross-cutting issues (water, food, energy, ecosystems).
- Apply the Nexus Participatory Assessment Methodology in transboundary basins developed by the United Nations Economic Commission for Europe (UNECE) / GEF IW:LEARN.

Inter-ministerial and expert roundtable dialogues on the water-food-energy-ecosystem nexus to increase climate resilience and better achieve SDG 9 on resilient infrastructure and sustainable energy.

- National and regional technical dialogues and roundtables on resilience and sustainability of infrastructure in the Amazon Basin.
- International experiences and best practices from transboundary basins, applying Nexus-based approaches to address infrastructure issues in the Amazon Basin.
- Nexus assessment on water, food, energy and ecosystems in the Amazon region.

Risk analysis, environmental impact assessment and best practices for minimizing the impact of infrastructure on water resources and the environment.

- Compendium of "Resilient and sustainable infrastructure: legislation, methodologies, standards and best national practices for risk analysis and environmental impact assessment of infrastructure projects in the Amazon region";
- Technical document for policy makers with inputs and recommendations from the Nexus assessment.
- Amazon Declaration on the Future of the Amazon region from a common perspective.
THANK YOU
GRACIAS
OBRIGADA.

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