

Session #
Cross Cutting Session 3 on
Climate-Water-Energy-Food-Ecology System of Systems

Day, slot time (Bali time), room

A session organized by:



In partnership with:



CONTEXT

Water, energy and food security, underpinned by healthy ecosystems, are crucial for sustainable long-term economic growth and human wellbeing. The water-energy-food ecosystem (WEFE) nexus leverages synergies between water and related policies to achieve these objectives. Increased awareness of the interaction and interlinkages of the Water-Energy-Food-Health-Education-Ecosystem system brought about a system level approach to manage water. Nevertheless questions remain on the business case for system approaches to expand integrated water resource management to include these system interactions. This session will explore successful planning, financial and governance models will be shared through case studies across scales and regions, ranging from, Basin Authorities, Governmental Mechanisms of Cross-jurisdictional Coordination, Civil Society organizations and platforms and Transboundary collaboration.

PROGRAMME (90 MIN SESSION)

Opening (5 min)

Prof. Dr. Daniel Karthe (UNU-Dresden, Germany)

Context and scope of the session; organizational and technical remarks

Panel 1st part - Development of the Climate-Water-Energy-Food-Ecology System of Systems [20 min]

This part of the session focuses on the conceptual development of Nexus approaches in the recent past, and perspectives for their further advancement. There are several speakers for the panel:

1. *An operational approach to the nexus: implementing IWRM at basin level to ensure consistent policies across sectors, transboundary basin:* Ms. Florence Grace Adongo, Executive Director of the Nile Basin Initiative (NBI), President of the African Network of Basin Organizations (ANBO).
2. *Policy reform on irrigation fee for sustainable food and water security, climate resilience, and low carbon transformation in Vietnam.* DG Ministry of Agriculture and Rural Development, the government of Vietnam (TBD) (Michiko Katagami, Principal Natural Resources & Agriculture Economist, Asian Development Bank).
3. *Water Governance and Challenges for the Nexus.* Aziza Akhmouch, Head of the Cities, Urban Policies and Sustainable Development Division at the OECD Centre for Entrepreneurship, SMEs, Regions and Cities (CFE)
4. *Gender and Inclusion Mainstreaming for Nexus (Energy-Water-Agriculture) approach implementation in East Nusa Tenggara Indonesia.* Possible Speaker: Dedy Haning - Arti Indallah

Q & A [5 min]

Moderator Rahmah Elfithri (UNESCO, Paris, France)

Approx. 2 questions

Panel 2nd part - Implementation of the Climate-Water-Energy-Food-Ecology System of Systems [20 min]

This part of the session focuses on case studies on the WEFE Nexus in different geographical and thematic contexts. There are several speakers for the panel:

5. *Guidelines on sedimentation bypass and successful international case studies to ensure the balance of the water-energy-food-sedimentation nexus.* ICOLD-International Commission on Large Dams. Vicky Ariyanti.
6. *How the WEFE nexus concept is being incorporated into planning and management in Pakistan.* Mohsin Hafeez who is IWMI's country representative in Pakistan and strategic program lead.
7. *WEFE Nexus challenges in the Upper White Nile Basin, East Africa (Uganda, Kenya, Tanzania).* Annika Schlemm, Vrije Universiteit Brussel, Belgium:
8. *Water-Food-Energy Nexus Suggestions, messages, recommendations: Africa and private sector perspective.* OBA Global Citizens Limited Private company, Nigeria, Oluwafemi Omosuyi. oluwafemi@obagc.africa.

Q & A [7 min]

Moderation: Shaneica Lester, World Youth Parliament for Water, Jamaica
Approx. 2-3 questions

Concluding Remarks (5 min)

Prof. Dr. Rabi Mohtar (Texas A&M University, College Station TX, USA)

Synthesis and short discussion of the session findings

ANNEX

Contact points:

Lead-organizers:

Texas A&M University

Prof. Dr. Rabi Mohtar, mohtar@tamu.edu

United Nations University

Prof. Dr. Daniel Karthe, Email: karthe@unu.edu

UNESCO Division of Water Sciences

Dr. Sarantuya Zandaryaa, Email: s.zandaryaa@unesco.org

Co-organizations: (institution names of speakers)

- FAO

- OECD, Juliette Lassman, Juliette.LASSMAN@oecd.org

- Oriana Romana, Oriana.ROMANO@oecd.org

- EU DG Env Henriette Faergemann Henriette.Faergemann@eeas.europa.eu

- BEHRENDT KALJARIKOVA Dagmar Dagmar.KALJARIKOVA@ec.europa.eu

- INBO, secretariat@inbo-news.org, Eduard Boinet e.tardieu@inbo-news.org,
e.boinet@oieau.fr, m.lupi@inbo-news.org

- HIVOS/Humanis, Arti Indallah, atjakranegara@hivos.org

- Danone, Nathalie Dorfliger nathalie.dorfliger@danone.com

- India Water Foundation, Ravind, drarvind@indiawaterfoundation.org

- IWMI – CGIAR, Chiara Colombo, C.Colombo@cgiar.org

- Matthew McCartney, M.McCartney@cgiar.org

- Daugherty Water for Food Global Institute at the University of Nebraska, Christopher Neale,
cneale@nebraska.edu