

Regional Consultation on Innovation Strategies for Sustainable Development through Water-Energy-Food Nexus

28-29, June 2017, Bangkok, Thailand

Session II

Application of Science, Technology and Innovation for Sustainable Management of Water-Energy-Food Resources

Summary and Recommendations

Intergovernmental Networks for Collaboration in WEF

- Reviewed Global WEF Frameworks – Bonn Conference Framework; World Economic Forum Framework, 2013; ICIMOD Framework, 2014
- Suggested a work program and action plan for Inter-governmental Networks to: (1) Identify and facilitate mainstreaming of SDGs related to WEF; (2) Build dynamic and enduring partnership between stakeholders; and (3) Build institutional capacity for SDG implementation through core WEF framework

Recommendations

- Establish and operationalize an Inter-governmental Network on WEF for the region and operationalizing a decision support process for assisting member countries

Fostering Innovation at the Water-Energy-Food Nexus: Challenges and opportunities

- Discussed on innovation challenges, opportunities and possible strategies for developing appropriate technological solutions to minimize stress in the W-E-F nexus
- Discussed key innovation challenges related to: (1) Inter-sectorial research; (2) methodological and institutional innovations; (3) Institutional disconnection and imbalances; (4) Lack of harmonized policies, databases and analytical framework; (5) Poor investment in research and innovation; (6) Gaps in science communication strategies

Recommendations

- Promote regional cooperation to support member countries: (1) Strengthen capacity in evidence-based W-E-F policy making; (2) promote technology innovations and research programmes to address the nexus stress in an integrated manner; and (3) Innovation capacity building

Human-Environmental Security in Asia-Pacific Ring of Fire

Water-Energy-Food Nexus

- Shared experiences of the Nexus project of Research Institute for Humanity and Nature (RIHN), Japan – implemented in 5 different countries, namely Japan, Canada, Philippines, Indonesia, and the United States.
- Discussed with examples how Water-Energy-Food resources are interrelated as well as the conflicts and trade-off relationships in the five project sites

Recommendations

- Suggested a methodological approach and framework to (1) Understand the complexity of the WEF nexus system, and (2) Create evidence-based policy options to solve the identified nexus problems; and (3) Undertake interdisciplinary research and co-production activities for W-E-F nexus

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