



SUSTAINABLE
ENERGY FOR ALL



BMZ  Federal Ministry
for Economic Cooperation
and Development

High Impact Opportunity (HIO) on the Water-Energy-Food nexus

**Sustainable Energy for All (SE4All) Thematic Briefing
Water-Energy-Food Nexus**

Vienna, March 16th, 2015



I. Agenda

- Objectives of the HIO
- HIO Partners
- HIO Working Groups
- Activities and Outcomes
- High Impact Initiatives
- Project Example Solar Fridges in Guinea Bissau
- Project Exaple: Integrated Urban Planning



➤ Objectives of the Nexus HIO

- Collect and develop approaches for assessing **nexus challenges and trade-offs**;
- **Exchange** on practical experiences between HIO partners, identification of possible **synergies**;
- Better integrate the nexus perspective in **policies and projects** at country level
- Document and disseminate **knowledge** about nexus solutions and best practices (<http://www.water-energy-food.org/>);
- **Engage stakeholders** from governments, the financial sector, industry, international organizations and civil society;
- Promote the **integration** of the Nexus approach into energy, water and agricultural planning.



➤ **Current partners of the Nexus HIO**

- German Ministry for Economic Cooperation and Development (Co-Lead)
- UN Food and Agriculture Organization (Co-Lead)
- Gesellschaft für Internationale Zusammenarbeit (GIZ)
- OPEC Fund for International Development (OFID)
- Renewable Energy and Energy Efficiency Partnership (REEEP)
- United States Agency for International Development (USAID)
- UN Environment Program (UNEP)
- World Bank
- Closely associated also with:
- European Commission and IRENA



➤ **NEXUS HIO Working Groups**

I. WG 1: Knowledge Management and Dissemination

Working group I deals with knowledge management and dissemination. In order to synthesize the existing research on the Water Energy Food (WEF) Nexus as a concept, working group I will act as a repository of knowledge.

II. WG 2: Piloting and Innovation

Working group II deals with pilot projects and innovative project approaches at implementation level. Hence, working group II should support the development of pilot Nexus projects in order to demonstrate the actual benefits of Nexus-conscious projects

III. WG 3: Policy and Programmatic Support at Country Level

To support the development and implementation of the Nexus approach at country level, working group III works with interested policy-makers in helping them to integrate the Nexus perspective into the relevant water, energy and food policies.



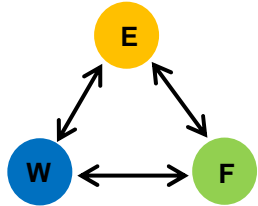
➤ **Activities and outcomes of the HIO**

- Host **regular meetings** between HIO partners (mainly tele/video conferences)
- **Initiate dialogue** with partners and relevant stakeholders;
- **Increase awareness** regarding the Nexus topic, through side events or sessions organised at relevant conferences and forums, newsletters, the Nexus web platform, etc.
- Implemented and planned **nexus pilot projects** have been collected and discussed.
- A **factsheet collection** introducing the WEF nexus and the nexus activities of all HIO partners has been assembled.
- **Integrate** the nexus perspective into the **work programs** of partners and relevant stakeholders as well as into programs that they **implement** with **partner countries**.
- Work on a **nexus toolkit** to facilitate the use of nexus assessment tools for partner countries.



➤ **NEXUS High Impact Initiatives**

- Development of a WEF nexus Assessment Package – Lead: FAO
 - Promotion of sustainable integrated food energy systems (IFES) – Lead: FAO
 - Sustainable energy in emergency and rehabilitation settings - Lead: FAO
 - Tracking energy-food security linkages - Lead: FAO
 - Policy Dialogue, Awareness and Knowledge Dissemination - Lead: BMZ/Germany
 - Stakeholder Dialogue, Policy Advisory and Project Implementation – Lead: GIZ
 - Powering Agriculture Energy Grand Challenge - Lead: GIZ/US-AID
 - Applying the WEF nexus in the field - Lead: REEEP (with OFID)
- **Key Partners may choose to add additional HII as the work of the HIO progresses.**



Project Example: Solar Fridges in Guinea Bissau (FAO)

Countries: Guinea Bissau

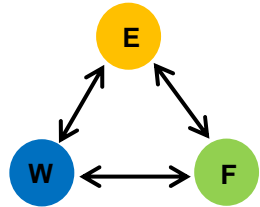
Context

- The ability of local fishers to conserve their product is inhibited by the lack of modern cooling and conservation options.

Approach

- Solar Fridges are introduced in a pilot village to allow villagers to save money by storing unsold fish.
- It is further planned to add a solar pump to clean the place where the solar fridges are used.





Project Example: Integrated Urban Planning (GIZ)

Countries: China, Indonesia, Mongolia, Philippines, Thailand and Vietnam

Context

- The **rapid growth of Asian cities** puts the water-, energy- and food-security at risk
- Currently, urban planners in Asia plan **sectorally** and thus do not take the possible synergies and trade-offs between the sectors adequately into account

Approach

- Urban planners in 10 Asian cities are advised on **Nexus-focused Resource management** to enable sustainable development of the future megalopolis
- *Nexus Task Forces* are built up that channel and concentrate **best practices** across all three Nexus-areas
 - **Water** = efficient water use and reutilising waste-water; **Food** = urban and periurban agriculture, waste-to-energy (focus on foodwaste); **Energy** = efficient buildings, integration of renewables and efficient transport management





SUSTAINABLE
ENERGY FOR ALL



BMZ  Federal Ministry
for Economic Cooperation
and Development

Thank you for your Attention!

Mike Enskat

Senior Program Manager, Energy for Sustainable Development, GIZ

mike.enskat@giz.de