



Sustainability in the Water-Energy-Food Nexus

Guest Editors:

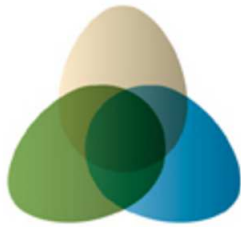
Anik Bhaduri (Global Water System Project)

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Rabi Mohtar (Texas A&M University)

Waltina Scheumann (German Development Institute, DIE)

Ines Dombrowsky (DIE)



International Conference

Sustainability in the Water-Energy-Food Nexus

19 -20 May 2014 in Bonn, Germany

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Participating Institutions

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Sustainability in the Water-Energy-Food Nexus

Selected contributions from the International Conference „Sustainability in the Water-Energy-Food Nexus. Synergies and Tradeoffs: Governance and Tools at various Scales“, this Special Issue addresses the sustainability of the W-E-F Nexus as a key research-for-action initiative. It constitute three overarching conference themes:

- 1.Environment and wellbeing;
- 2.Implementation of W-E-F nexus at different scales;
- 3.Governance of the nexus



Sustainability in the Water-Energy-Food Nexus

This Webinar authors will address:

1. How can the WEF nexus be implemented across scales?
2. How can governance and management practices reduce trade-offs and exploit synergies?

Among other Nexus challenges and opportunities



Special Issue: Sustainability in the water–energy–food nexus

Sustainability in the water–energy–food nexus

Anik Bhaduri, Claudia Ringler, Ines Dombrowski, Rabi Mohtar & Waltina Scheumann

The impact of water users' associations on the productivity of irrigated agriculture in Pakistani Punjab

Dawit K. Mekonnen, Hira Channa & Claudia Ringler

Water–energy–food (WEF) Nexus Tool 2.0: guiding integrative resource planning and decision-making

Bassel T. Daher & Rabi H. Mohtar

Bioenergy, food security and poverty reduction: trade-offs and synergies along the water–energy–food security nexus

Alisher Mirzabaev, Dawit Guta, Jann Goedecke, Varun Gaur, Jan Börner, Detlef Virchow, Manfred Denich & Joachim von Braun

Application of a water–energy–food nexus framework for the Duero river basin in Spain

Beatriz Mayor, Elena López-Gunn, Fermín I. Villarroya & Esperanza Montero

Reuse of oil and gas produced water in south-eastern New Mexico: resource assessment, treatment processes, and policy

Enid J. Sullivan Graham, Anne C. Jakle & F. David Martin



Special Issue: Sustainability in the water–energy–food nexus

[Water–energy–food nexus in a transboundary context: the Euphrates–Tigris river basin as a case study](#) [Aysegül Kibaroglu](#) & [Sezin Iba Gürsoy](#)

[Water–food–energy nexus in Chile: the challenges due to global change in different regional contexts](#) [Francisco J. Meza](#), [Sebastian Vicuna](#), [Jorge Gironás](#), [David Poblete](#), [Francisco Suárez](#) & [Melanie Oertel](#)

[How would the Rogun Dam affect water and energy scarcity in Central Asia?](#)

[Maksud Bekchanov](#), [Claudia Ringler](#), [Anik Bhaduri](#) & [Marc Jeuland](#)

[Governance of transitions towards sustainable development – the water–energy–food nexus in Cyprus](#)

[Johannes Halbe](#), [Claudia Pahl-Wostl](#), [Manfred A. Lange](#) & [Christina Velonis](#)

[The water–energy–food \(WEF\) security nexus: the policy perspective of Bangladesh](#)

[Animesh K. Gain](#), [Carlo Giupponi](#) & [David Benson](#)

[Where is the power? Transnational networks, authority and the dispute over the Xayaburi Dam on the Lower Mekong Mainstream](#) [Oliver Hensengerth](#)

[Application of payments for hydrological ecosystem services to solve problems of fit and interplay in integrated water resources management](#) [Jochen Hack](#)



WEF Nexus Challenges and Opportunities

- **Case Studies** to define *interconnectivity* of W-E-F systems.
- **Shared Platforms** with national, int'l data components to serve the WEF community.
- **Document Data Needs** for multi-scale, transdisciplinary research.
- **Indicators** to monitor **governance in management** - the *role* and *effectiveness* of practices.
- **50-year scenarios for w-e-f outlooks**, in support of planning for impact of climate change, trade-offs, externalities, ecosystem services, food waste.
- **Pilot projects:** test & implement solutions at local/regional-scales.
- **Common Accounting Framework** for ecosystem services, in support of holistic regional resource mgt approaches.