

Water, energy and land systems are inter-connected and have become increasingly complex and dependent on one another. Understanding the drivers behind these interlinkages is important when developing and implementing infrastructure so it improves benefits to people and nature while securing sustainable economic and industrial development. At the same time, the right policies, incentives and co-operation need to be in place, which is further complicated when the development is in shared river basins.

This seminar explores the drivers for energy investments and policies in water infrastructure development and management. Key areas to be explored include: How does investment in energy infrastructure affect other parts of the nexus? In what way can energy investments and ways of operating infrastructure provide multiple benefits across the nexus? How can benefits be shared? How can water savings in energy be used beneficially in water supply and food production? How can different actors cooperate to that end? Learning and critical thinking from a series of recent nexus dialogue workshops in Africa, Latin America and Asia, as well as a set of assessments of the water-food-energy-ecosystems in transboundary river basins will provide a basis for discussion, along with perspectives from the energy, water and food sectors.

PROGRAMME

14:00

Welcome and Opening Remarks
Chair: Dr Ger Bergkamp, IWA

Part 1: Enabling Environment for Investing in the Energy Sector: Understanding Benefits and Trade-offs

14:05

Keynote – **Her Excellency Ambassador Dr Lisa Emilia Svensson** - Sweden's Ambassador for Oceans, Seas, and Fresh Water

14:20

Setting the Scene: Focus on energy perspective – what are the benefits and trade-offs across the nexus?
Dr James Dalton, IUCN

14:30

A US perspective on water-energy nexus: success and failures from practitioners
Dr Reagan Waskom, Colorado State University

14:40

Transboundary implications of energy infrastructure on water resources: considerations and approaches
Dr Annukka Lipponen, UNECE

15:00

Roundtable discussion – **Katharine Cross, IWA**

20 mins discussion followed by 10 mins feedback in plenary from the tables - Each table will have one discussion question

- How does investment in (energy) infrastructure affect different parts of the nexus?
- In what way can energy investments and ways of operating infrastructure provide multiple benefits across the nexus?
- How can benefits be shared?
- How can water savings in energy be used beneficially in water supply and food production?
- How can different actors cooperate to that end?

Roundtable moderator: **Jonathan Grant, Water Tap**

15:30

Coffee break

Chair: Ms Ulrike Pokorski, GIZ

Part 2: Investment in nexus infrastructure and the impacts on water, energy and food security

16:00

Serre-Ponçon (France) and Nam Theun 2 (Lao PDR) hydro schemes: 2 locations, 2 different time periods but the same positive impacts from «water for energy» infrastructure
Mr Laurent Bellet, EDF

16:15

Identifying a Pipeline of Natural Infrastructure Investment and How Energy Priorities and Economics Shape Financing of These Investments
Mr Todd Gartner, WRI

16:30

Investment aspects for energy efficiency in water infrastructure – energy contracting model
Mr. Malek Rawashdeh - Water Authority of Jordan (WAJ)

16:40

Renewable Energy Investments in the Context of the Water-Energy-Food Nexus
Mr. Jordan Macknick, National Renewable Energy Laboratory (NREL)

17:00

Closing panel discussion - The panel will discuss issues raised through the session from individual presentations and from the audience.

Chair: H. E. Ambassador **Dr Lisa Emilia Svensson**
Jordan Macknick, NREL
Laurent Bellet, EDF
Todd Gartner, WRI
Malek Rawashdeh - Water Authority of Jordan
Annukka Lipponen, UNECE
Reagan Waskom, Colorado State University

17:30

Close

2014 KEY COLLABORATING PARTNER



Sunday, August 31st from 14:00-17:30

Room K11

ENERGY INVESTMENTS AND INFRASTRUCTURE PROVIDING BENEFITS ACROSS THE NEXUS

Join an active debate on energy impacts across the water - energy - food of nexus

<http://programme.worldwaterweek.org/event/energy-investments-and-3456>



Coordinated investment and operation of existing and new multi-purpose infrastructure and technology by the water and energy sectors from national to transboundary level delivers multiple benefits, builds resilience and increases efficiency. This seminar explores drivers for investments in these infrastructures and potential impacts on water, energy, food, climate and ecosystems.

CONVENORS
IUCN & IWA



CO-CONVENORS
US State Department, GIZ, EDF, UNECE, WRI, Water Tap

