

WATER AND ENERGY: BEYOND THE NEXUS

CONVENORS: UN WORLD WATER ASSESSMENT PROGRAMME (WWAP)

CO-CONVENORS: STOCKHOLM INTERNATIONAL WATER INSTITUTE (SIWI)



Date: Thursday 5 September 2013

Time: 9:00-12:30 - Room: K21

INCREASING RECOGNITION OF THE WATER AND ENERGY 'NEXUS' HAS RAISED AWARENESS OF THE EXISTING INTER-LINKAGES/INTERDEPENDENCIES BETWEEN THESE DOMAINS - HOWEVER, BARRIERS TO COOPERATION BETWEEN DECISION-MAKERS AND PRACTITIONERS STILL EXIST, AND COMPLICATE THE EVALUATION AND MANAGEMENT OF TRADE-OFFS. IT IS VITAL THAT WE NOW DEVELOP COORDINATED APPROACHES TO IDENTIFYING AND MANAGING TRADEOFFS IN ORDER TO ACHIEVE GREATER ECONOMIC AND SOCIAL BENEFITS FOR ALL. REACHING BEYOND THE USUAL 'WATER FOR ENERGY'/'ENERGY FOR WATER' METRICS, AND FOCUSING ON A MORE PRACTICAL INVESTIGATION OF THE BROADER WATER IMPLICATIONS OF THE CHANGING GLOBAL ENERGY MIX, THIS EVENT WILL DEBATE APPROACHES TO STRENGTHENING COLLABORATION BETWEEN THE WATER AND ENERGY COMMUNITIES TO DEVELOP APPROPRIATE RESPONSE MEASURES, MANAGE TRADE-OFFS, AND MAXIMIZE CO-BENEFITS. THE EVENT WILL HELP TO PROMOTE ESSENTIAL DIALOGUE REACHING FURTHER THAN THE GENERIC RECOGNITION OF THE WATER/ENERGY INTERLINKAGES AND FOCUS ON PRACTICAL RESPONSE MEASURES.



EVENT PROGRAMME

Welcome and opening remarks: Olcay Unver, WWAP Coordinator
Seminar background and objectives: Andreas Lindström, Programme Manager, SIWI
Panel Moderator: Johan Kuylenstierna, Executive Director for SEI (Stockholm Environment Institute)

PART 1

A) RECENT DEVELOPMENTS IN ENERGY PRODUCTION – TECHNICAL ASPECTS

THE OPENING PRESENTATION WILL FOCUS ON RECENT DEVELOPMENTS AND EMERGING TRENDS IN ENERGY PRODUCTION PROCESSES.

Dr. Gustaf Olsson, Professor Em. in Industrial Automation, Lund University, Sweden and Author "Water and Energy: Threats and Opportunities" (IWA, 2012)

B) RECENT DEVELOPMENTS IN ENERGY POLICY DEVELOPMENT AND IMPLEMENTATION IN THE NORTH AND SOUTH

PRESENTATIONS WILL HIGHLIGHT DIFFERENT SOCIAL, ENVIRONMENTAL AND ECONOMIC CHALLENGES AND RESPONSES REGARDING THE PRODUCTION, DISTRIBUTION AND USE OF ENERGY IN VERY DIFFERENT DEVELOPMENTAL CONTEXTS.

Dr. Jens Bartholmes, Policy Officer, European Commission
Mr. Zelalem Gebrehiwot, East African Power Pool

C) ENERGY SECURITY AND THE CHANGING ENERGY MIX – WHAT FUTURE?

RECENT PROJECTIONS OF POSSIBLE ENERGY FUTURES WILL BE PRESENTED, WITH A FOCUS ON THE MAIN

CHALLENGES EMERGING IN DIFFERENT REGIONS AND THE LIKELY IMPLICATIONS ON WATER RESOURCES.

Dr. Jakob Granit, Centre Director, SEI Stockholm

D) QUANTIFYING TRADEOFFS OF THE WATER-ENERGY NEXUS

THE NEED FOR A BETTER UNDERSTANDING OF CROSS-SECTORAL IMPLICATIONS AND THE POTENTIAL MAGNITUDE OF WATER AND ENERGY STRESSES FOR THE ENERGY SECTOR IS NEEDED FOR CLIMATE-SMART AND INCLUSIVE GREEN GROWTH PLANNING WILL BE PRESENTED.

Dr. Diego Rodriguez, Senior Economist, World Bank



COFFEE BREAK

PART 2

Moderated panel discussion: Implications for water.

Speakers from Part 1 will be joined by additional panelists from the water community to discuss how trends and projections are likely to impact on water resources, other major water use sectors, and the environment.

Questions to be discussed:

- How do we forge stronger links between the energy and water communities?
- Are integrated approaches and policies feasible?
- How do we identify, communicate, and manage tradeoffs?
- How is the question of energy security in times of increasing RE on the grid met, and is this done sustainably? Are the right energy/systemic option assessments employed in various regions?

PART 3

Moderated open plenary: Implications for water.

The audience is invited to share their thoughts and interact with the panelists.

CLOSING STATEMENT

Dr. Kandeh K. Yumkella, Chairman UN-Energy
Special Representative of the Secretary-General & CEO
Sustainable Energy for All Initiative



SPEAKERS



PANEL MODERATOR:
MR. JOHAN KUYLENSTIERNA,
EXECUTIVE DIRECTOR FOR SEI



DR. GUSTAF OLSSON,
PROFESSOR EM. IN INDUSTRIAL
AUTOMATION,
LUND UNIVERSITY SWEDEN



DR. JENS BARTHOLMES
POLICY OFFICER
EUROPEAN COMMISSION



DR. JAKOB GRANIT
CENTRE DIRECTOR
SEI STOCKHOLM



DR. DIEGO RODRIGUEZ
SENIOR ECONOMIST
WORLD BANK

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