

2014 PROGRAMME

**WORLD
WATER
WEEK**
in Stockholm,
August 31-September 5, 2014

Key collaborating partners



SUSTAINABLE
ENERGY FOR ALL



WORLD BANK GROUP

World Water Week is organised by



World Water Week in Stockholm

ENERGY AND WATER

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WELCOME TO 2014 WORLD WATER WEEK IN STOCKHOLM

Photo: Thomas Hemikson



On behalf of Stockholm International Water Institute, it is my pleasure to welcome you to the 2014 World Water Week! This year, we will focus on energy and water, two sectors inextricably linked and interdependent. We need water for energy (cooling, storage, biofuels, hydropower etc.), and energy for water (to pump, treat and desalinate).

We have invited energy and water professionals from the science and research communities, governments, international organisations, civil society and the private sector to join the World Water Week discussion. We look forward to inspiring seminars, productive workshops and enlightened debates on some of the most crucial issues facing the world's population. This is just the beginning, we believe, of a closer cooperation between our two communities: it is only by thinking and acting together that we can create lasting change.

World Water Week in Stockholm started as a research symposium in 1991. The scientific core of World Water Week is manifested by our workshops. Over the years, the Week has broadened significantly in scope, and we are now pleased to also include civil society, policy makers and the private sector in our circle of friends. We are proud to be able to provide a platform for exchange of ideas, and act as a bridge between researchers, regulators, civil society and the private sector.

The increased interest from businesses is inspiring. The private sector is co-convening more events than during any previous World Water Week, and there will be more companies

present, including from the energy sector. Civil society is an important driver of change, having been part of the Week for several years, working not parallel to, but in partnership with governments, researchers and companies.

After the success of last year, we have invested even more time and energy into the Young Professional's Day, adding a seminar on entrepreneurship featuring inspirational speakers who have built successful businesses and organisations. Two of the speakers are winners of the Stockholm Junior Water Prize, Alison Bick (2011) and Claire Reid (2003).

This year's World Water Week falls between two major milestones in the process leading to a Post-2015 Development Framework, the release of the UN Open Working Group recommendations and the UN General Assembly in September. The Week will offer an excellent opportunity for the water community to discuss and push for a dedicated goal on water in the future Sustainable Development Goals.

As organiser of World Water Week, our aim at SIWI is to help you make the most out of your week in Stockholm. In this programme, you will find detailed information about the more than 100 events that comprise World Water Week, including scientific workshops, seminars, side events, field visits, prize ceremonies, plenary sessions, several social events including the Royal Banquet.

We also recommend you make use of the online programme to design and personalise your agenda for the week.

You are invited to join us in the World Water Week's social media channels where you can engage in stimulating conversations on the topics discussed at the Week. Please go to **www.worldwaterweek.org** to find the online programme and other useful links.

Welcome to Stockholm and 2014 World Water Week!

Mr. Torbjörn Holmgren
Executive Director
Stockholm International Water Institute

KEY COLLABORATING PARTNERS



World Water Week will address the twin challenges of increasing global demand for energy and water. IUCN sees solutions for both as vital for a sustainable future. As a key collaborating partner in World Water Week, we aim to help in building the partnerships for innovation that will bring solutions to life – for a better future for the planet.



SUSTAINABLE
ENERGY FOR ALL

As a key collaborating partner for the 2014 World Water Week, SE4All seeks to leverage the nexus perspective as a policy and management instrument for increased collaboration and partnerships to support ongoing consultations on the Post-2015 development agenda to reach an agreement on goals that are interwoven and jointly achievable and; catalyse actions for achieving SE4All's three inter-related goals.



WORLD BANK GROUP

This year's World Water Week is dedicated to water and energy and as the World Bank Group embarks in implementing its Thirsty Energy Initiative, World Water Week is the ideal event to seek new partnerships and exchange existing knowledge on the subject matter. As collaborating partners, we will work together to ensure that the major players from the energy and water communities gather to bring solutions and effective partnerships.

ORGANISER



During the focus year on Water and Energy, the Stockholm International Water Institute (SIWI) organises the 2014 World Water Week in Stockholm under the theme of "Energy and Water". In order to widen the reach, enrich the discussions and encourage convergence we have teamed up with a number of key collaborating partners: World Bank Group, Sustainable Energy for All (SE4ALL) and International Union for Conservation of Nature (IUCN).



Photo: Johannes Wienke, SIC

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THEMATIC SCOPE:

ENERGY AND WATER

Several years ago, in the Asia-Pacific Water Development Outlook 2007, the Prime Minister of India stated that “...if all members of society can have adequate access to energy and water, many of the societal problems can be solved”. That statement is as true today as it was then. Energy and water are inextricably linked – we need “water for energy” for cooling, storage, biofuels, hydropower, fracking etc., and we need “energy for water” to pump, treat and desalinate. Without energy and water we cannot satisfy basic human needs, produce food for a rapidly growing population and achieve economic growth. And yet, today, 1.3 billion people lack access to electricity and some 800 million people get their water from unimproved sources. Many more consume water that is unsafe to drink. These are mostly the same billion poor, hungry and underprivileged human beings. Over the coming 30 years food and energy demands are expected to increase dramatically, yet we will depend on the same finite and vulnerable water resource as today for sustaining life, economic growth and our environment.

When addressing the “energy and water” theme during 2014 World Water Week in Stockholm we shall take an overall “systems view” of how we develop and manage energy and water for the good of society and ecosystems – at local, national, regional and global levels – and avoid unintended consequences of narrow sectoral approaches. The “water, energy and food security nexus”, underpinning the green growth approach, will be central to the agenda.

The energy and water theme will be addressed from two overall perspectives: the societal opportunities and challenges, and the cross-cutting issues.

Societal opportunities and challenges

Demography and economy driving energy and water demands

Efficient production and use of energy and water is essential in the national context to ensure basic needs and development opportunities for people. However, both energy and water transcend national boundaries, physically through transboundary waters and power grids, and economically through regional economic cooperation. Cooperation between nations increasingly focuses on sharing benefits, rather than water per se, with both food and energy as the primary, water-dependent goods to share. At the global level recurrent crises – energy, food, financial – illustrate systemic inter-dependence. Developing countries have serious challenges in achieving the Millennium Development Goals (MDGs) by 2015, and the close water, energy, and food interconnections need to be considered in formulating Sustainable Development Goals (SDGs) to follow the MDGs from 2015.

Balancing societal uses of energy and water

Energy and water are critical factors in urban development. Rapidly growing cities depend on reliable energy and water supply, but must try to reduce demands, manage trade-offs and optimise resource use by reuse, recycling and generation of energy from waste, all in an integrated urban management context. For industrial development improved efficiency in the use, and reuse, of energy and water is essential to save on increasingly scarce resources and costs, for both production and waste management. An added driver is to strengthen corporate social and environmental responsibility through sustainable production. Research, innovation and technology development for improved energy and water efficiency are essential for such efforts. The energy-water linkage is not only about quantity, but also about water quality and pollution, related to pollutant discharge, to significant quantities of heated cooling water affecting surface waters, or to potential groundwater pollution due to energy-related geo-engineering activities, including fracking.

Energy and water in a vulnerable and changing environment

Sharply accelerating demands for food and energy production place increasing pressure on the availability of water for vulnerable ecosystems and the biodiversity and human livelihoods they sustain. Energy production, be it hydropower development, biofuel production, shale gas exploitation or other forms of energy production, may have serious environmental and social consequences that need to be properly assessed and addressed. Climate change may affect the water system through increased variability, long term temperature and water balance changes and sea level rise, and is in many cases an added driver to be considered. Climate adaptation is primarily about water and land, but water resources are also critical for climate change mitigation, as many efforts to reduce carbon emissions rely on water availability. Because the water cycle is so sensitive to climate change, and because water is so vital to energy generation and carbon storage, we need to recognise the coherence between mitigation and adaptation measures. In ensuring this, and managing variability and environmental flow requirements, storage of both energy and water becomes a critical issue, including water as a medium for storing energy. Storage may be required at all levels, from the household and village levels to major infrastructure in transboundary settings, not least in developing countries. Such storage may be provided through investments in conventional infrastructure and/or in the restoration and management of natural systems.

“...if all members of society can have adequate access to energy and water, many of the societal problems can be solved”

Cross-cutting issues

Coordinating energy and water policies and governance

Unintended consequences of energy development for water, and vice versa, often have their roots in fragmented policies, e.g. energy subsidies in some parts of the world contributing to unsustainable groundwater overdraft through excessive pumping. The energy and water worlds seem to be divided between those who focus on technical solutions, and those who assume that the challenge is rather one of politics and governance. In taking a “systems view” energy and water policies need to be coordinated. In developing effective energy and water governance different characteristics and traditions prevail: while energy production most often is centrally managed, good water governance needs to include local, de-centralised planning and management in dialogue with affected stakeholders. For both, top-down needs to meet bottom-up governance. As evident when addressing the water, energy and food security linkages, real engagement of actors from other sectors is a pre-condition for success. For water the implementation of the Integrated Water Resources Management (IWRM) approach includes energy, but its role has not been sufficiently examined. In the energy sector policy choices, whether conventional or alternative, must depend on water resources availability and vulnerability. Both require stakeholder involvement in the entire chain from resource exploitation through regulation to consumption, including consideration of both energy and water in the food chain from “field to fork”. Poor and vulnerable stakeholders in developing countries require special attention, as does improved gender equality and youth participation.

Addressing the economic and financial aspects of water and energy

The economic value of energy varies in a changing market and may be difficult to assess for long term investments. For water, assessments of economic value must accommodate the fact that water is a public and social good, and access to safe drinking water has been declared a human right by the United Nations. At the same time, assessment of costs and benefits for different water uses needs to address gaps in knowledge of values linked to biodiversity and ecosystem services. However, when addressing benefit sharing, and likely energy and water markets, not least across boundaries, acceptable and reliable estimates are required. When it comes to financing and pricing the situation is equally complicated, due to the asymmetry, volatility and inter-linkages of energy and water prices, with energy mainly being priced on the market and water as a public good. Understanding of these

inter-linkages, and their economic and financial implications, are necessary for both public and private decision-makers.

Developing information and decision support systems for energy and water

Access to, and sharing of data and information, not least across jurisdictions and boundaries, is in itself a major challenge for water resources management. In transboundary settings it is often considered an issue of national security. The data and information challenge does not become easier when energy and water is combined. However, assessment of the inter-linkages and trade-offs for water from energy development, and vice versa, is strengthened greatly by an environment of dialogue, trust and full sharing of data and information between decision-makers and affected stakeholders, both public and private. It must also be flexible and adjustable to rapid change. Energy and water data and information may be made more accessible through mobile technologies. The complexity of decisions on energy and water development often calls for combined energy-water modeling as a basis for developing integrated decision support systems. In both sectors advanced models have been developed, and efforts to further combine and apply integrated energy and water modeling systems are underway. Such developments include hydro- and energy economics, ecological and hydrological effects, social criteria and economic tools to quantify trade-offs.

Bridging the science-policy-people interface for energy and water

In the final declaration “The Future We Want” from world leaders at the Rio+20 Summit in 2012 the chapter on energy contained no reference to water, and the water chapter did not mention energy. Clearly, whilst a lot of information about the water-energy linkages has been developed, awareness and knowledge have not transcended sectoral boundaries at the administrative and political levels. The science-policy-people dialogue on energy and water needs to be improved based on increased “energy and water literacy” and a genuine effort to communicate advances in science and good practice, as well as innovation in technology and management, to our political decision-makers. Meanwhile, political decision-makers need to set the agenda and framework for the science and technology to become policy relevant. In the developing countries in particular such efforts need to be associated with efforts to develop capacity at all levels to address these inter-linkages.

SCIENTIFIC PROGRAMME COMMITTEE

The Scientific Programme Committee (SPC) is comprised of a number of professors, scientists and experts from the water and development fields. The work of the SPC involves setting the overall theme, the thematic scope, for World Water Week in Stockholm, determining the workshop topics, selecting the submitted abstracts, developing the workshop programmes and reporting.

- Dr. Torkil Jønch Clausen, DHI (Chair)
- Dr. Robert Bos, IWA
- Dr. Phil Graham, SMHI
- Dr. Dipak Gyawali, NAST
- Mr. John Joyce, SIWI (co-opted member)
- Dr. Anders Jägerskog, Sida
- Ms. Angela Kallhauge, SEA
- Dr. Jerson Kelman, Federal University of Rio de Janeiro
- Dr. Marianne Kjellen, SIWI
- Dr. Jakob Lundberg, We Effect
- Prof. Jan Lundqvist, SIWI
- Dr. Mark Smith, IUCN (co-opted member)
- Dr. Diego Rodriguez, WB (co-opted member)
- Mr. Will Sarni, Deloitte
- Ms. Danka Thalmeinerova, GWP
- Prof. Kalanithy Vairavamoorthy, University of South Florida
- Dr. Alain Vidal, CGIAR
- Dr. David Wiberg, IIASA (co-opted member)
- Prof. Pieter van der Zaag, UNESCO-IHE
- Mr. Torgny Holmgren, SIWI (Vice Chair)
- Ms. Karin Lexén, SIWI
- Mr. Adrian Puigarnau, SIWI (Secretary)

YOUNG SCIENTIFIC PROGRAMME COMMITTEE

The Young Scientific Programme Committee (YSPC) provides support to the Scientific Programme Committee in screening and reviewing the abstracts that have been submitted for each of the workshops and in setting the workshop programmes. During World Water Week, they support the workshop rapporteur teams and are part of the “Best Poster Award” jury.

- Mr. Nick Copeland, UK
- Mr. Ankur Gupta, India
- Ms. Johanna Köhler, Germany
- Ms. Olimar Maisonet-Guzmán, Puerto Rico
- Ms. Lara Nassar, Jordan
- Mr. Jacob Petersen-Perlman, USA
- Mr. Silvio Pereira, Nicaragua
- Mr. Randolph Webb, USA

#WWWEEK: ENGAGE OVER SOCIAL MEDIA

In 2013, huge numbers of participants connected and debated on social media during World Water Week.

- **97,000** people were reached in Facebook newsfeeds.
- **15,000** #wwwweek-related tweets were posted during the five days of the event.
- **300 tweets** were written, posted and shared during **every hour** of the conference.

With conversations already heating up, we are expecting more of the same in 2014.

Virtual discussions will be taking place across our social media platforms. Your valuable contribution helps broaden the reach of the Week's messages and is a great way to elevate your personal profile amongst other participants. This year's activities include a live World Water Week Twitter Q&A session hosted by our media partner, the Guardian Global Development Professionals Network.

Join this year's online community and add your voice to the debate.



@www_team
#wwwweek



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InStockholm



www.flickr.com/photos/worldwaterweek



Stockholm International Water Institute



#wwwweek

CONVENING ORGANISATIONS

2030 WRG	2030 Water Resources Group
3GF Secretariat	Global Green Growth Forum Secretariat
7th World Water Forum Secretariat	
A, B, C, D	
A4A	Aqua for All
AA	Federal Foreign Office, Germany
ABDIB	Brazilian Association of Infrastructure and Basic Industries
ADB	Asian Development Bank
adelphi	
AEii	The Applied Energy Innovation Institute
AFD	French Development Agency
AFEID-ICID	Agence Francaise pour l'Eau, l'Irrigation et le Drainage
Africa AHEAD	
Agualimpia-Suizagua	
AGWA	Alliance for Global Water Adaptation
Alstom	
AMCOW	African Ministers' Council On Water
ANEAS	Asociación Nacional de Empresas de Agua y Saneamiento
ANU	Australia's National University
ASI	Adam Smith International
AUC	African Union Commission
AUSA	Association of the U.S. Army
AWF	African Water Facility
AWS	Alliance for Water Stewardship
BCC	Benguela Current Commission
BEF	Bonneville Environmental Foundation
BGR	Federal Institute for Geosciences and Natural Resources, Germany
BMUB	Federal Ministry for the Environment, Nature Conservation, Building and Nuclear, Germany
BMZ	Federal Ministry for Economic Cooperation and Development, Germany
BORDA	Bremen Overseas Research & Development Association
Botswana DWA	Department of Water Affairs, Botswana
BPD	Building Partnerships for Development in Water and Sanitation and Sanitation and Hygiene Applied Research for Equity
BuZa	Ministry of Foreign Affairs, The Netherlands
CAALCA	Water Center for Latin America and the Caribbean
CAF	Development Bank of Latin America
Cap-Net UNDP	
CARE	CARE International
CAREC	Regional Environmental Center for Central Asia
CEDARE	Center for Environment and Development for the Arab Region and Europe
CEDREN	Centre for Environmental Design of Renewable Energy
Ceres	
cewas	International Centre for Water Management Services
China Europe Water Platform	
China Water Risk	
CI	Conservation International
CIRAD	French Agricultural Research Centre for International Development

Circle of Blue	
CNSS	China Node for Sustainable Sanitation
The Coca-Cola Company	
CONAGUA	National Water Commission, Mexico
Conrad N. Hilton Foundation	
CRS	Catholic Relief Services
CSD Engineers	
CWC	Columbia Water Center at Columbia University
Delta Alliance	
DFID	Department for International Development, UK
DGIS	Directorate-General for International Cooperation, The Netherlands
DHI	
DIE	Deutsches Institut für Entwicklungspolitik
DWA	German Association for Water, Wastewater and Waste
DWFI	Daugherty Water for Food Institute
E, F, G, H	
E.ON	
Earthwatch	
Eawag	
EC	European Commission
EDF	Electricité de France
eFlowNet	Global Environmental Flows Network
Elsevier	
EPM	Empresas Públicas de Medellín
ESA	European Space Agency
Eskom	Eskom Holdings SOC Limited
ETH Zürich	Swiss Federal Institute of Technology Zürich
EWRI	Environmental and Water Resources Institute
FAO	Food and Agriculture Organization of the United Nations
FDFA	Federal Department of Foreign Affairs, Germany
FEMSA Foundation	
First Climate Markets AG	
Forest Trends	
Fortum	
FWF	Finnish Water Forum
FWP	French Water Partnership
GSMA	GSM Association
Gates Foundation	Bill & Melinda Gates Foundation
GDF SUEZ	
GE	General Electric
German WASH Network	
GETF	Global Environment and Technology Foundation
GIWEH	Global Institute for Water, Environment and Health
GIZ	Deutsche Gesellschaft für Internationale Zusammenarbeit
GlashusEtt	
Government of Hungary	
Government of the Netherlands	
GPOBA	Global Partnership on Output-Based Aid

Green Cross International

Group E

Growing Blue

GSF	The Gold Standard Foundation
GTO	German Toilet Organization
GU	Georgetown University
GWC	Global Water Challenge
GWOPA	Global Water Operators' Partnerships Alliance at UN-Habitat
GWP	Global Water Partnership
HKR	Kristianstad University
HSBC	

I, J, K, L

IADB	Inter-American Development Bank
IASS	Institute for Advanced Sustainability Studies
ICA	The Infrastructure Consortium for Africa
ICIMOD	International Centre for Integrated Mountain Development
ICMM	International Council on Mining and Metals
ICPDR	International Commission for the Protection of the Danube River
ICRAF	The World Agroforestry Centre
iDE	International Development Enterprises
IEC	International Energy Centre
IenM	Ministry of Infrastructure and the Environment, The Netherlands
IFAD	International Fund for Agricultural Development
IFRC	International Federation of Red Cross and Red Crescent Societies
IHA	International Hydropower Association
IIASA	International Institute for Applied Systems Analysis
IIED	International Institute for Environment and Development
IISD	International Institute for Sustainable Development
Imperial	Imperial College London
IMTA	Mexican Institute of Water Technology
IPIECA	IPIECA – The Global Oil and Gas Industry Association for Environmental and Social Issues
IRC	IRC International Water and Sanitation Centre
IRD	Institut de Recherche pour le Développement
IRENA	International Renewable Energy Agency
ISSA	International Strategic Studies Association
ITAIPIU	Itaipu Binacional
ITC	
ITESM	Tecnológico de Monterrey
IUCN	International Union for Conservation of Nature
IWA	International Water Association
IWC	International Water Centre
IWMI	International Water Management Institute
Jain Irrigation	Jain Irrigation Systems Ltd

JMP

World Health Organization/United Nations Children's Fund Joint Monitoring Programme

JRC

European Commission – Joint Research Centre

Justicia Hidrica

KAU	University of Karlstad
KfW	KfW Development Bank
KVA	Royal Swedish Academy of Science
K-water	Korea Water Resources Corporation
LI	Lahmeyer International GmbH

M, N, O, P

MAE	French Ministry of Foreign Affairs
MDBA	Murray-Darling Basin Authority

Ministry for Foreign Affairs, Finland

Ministry of Energy and Water Resources, Republic of Tajikistan

Ministry of the Environment, Sweden

Ministry of Environment, Water and Forests, Ivory Coast

Ministry of Water Resources, China

Ministry of Water Resources of the Republic of Iraq

MRC	Mekong River Commission for Sustainable Development
MUK	Makerere University
NamWater	Namibia Water Corporation
NDU	National Defense University
Nestlé	
NGS	National Geographic Society
NMBU	Norwegian University of Life Sciences
NRDC	National Resources Defense Council
NWP	Netherlands Water Partnership
OECD	Organisation for Economic Cooperation and Development

Oxfam

Pacific Institute

PepsiCo

PHG	The Palestinian Hydrology Group
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PISCES Foundation

Plan International

Q, R, S, T

Quantis	
Rebel	Rebel Group
RIHN	Research Institute for Humanity and Nature
Rockefeller Foundation	
RTI	RTI International
RWSN	Rural Water Supply Network
Sabesp	
SABMiller	
Safe Water Network	
Sandec	
Sanergy	
SDC	Swiss Agency for Development and Cooperation
SE4All	Sustainable Energy for All
SEA	Swedish Energy Agency
SEI	Stockholm Environment Institute
SHARE	Sanitation and Hygiene Applied Research for Equity

Sida	Swedish International Development Cooperation Agency
SIWI	Stockholm International Water Institute
Skat	
SLU	Swedish University of Agricultural Sciences
SoPAS	
SRC	Stockholm Resilience Centre
STWI	Sweden Textile Water Initiative
SUEN	Turkish Water Institute
SuSanA	Sustainable Sanitation Alliance
SWA	Sanitation and Water for All
SwAM	Swedish Agency for Marine and Water Management
Swedish Red Cross	
SWH at SIWI	Swedish Water House at SIWI
Swiss TPH	Swiss Tropical and Public Health Institute
SWP	Swiss Water Partnership
TAMU	Texas A&M University
TED-Lesotho	Technologies for Economic Development
The Stimson Center	
TNC	The Nature Conservancy
U, V, W, X, Y, Z	
UAE	The Abdel Malik Al Saadi University
UKZN	University KwaZulu-Natal
UMU	University of Umeå
UN DESA	United Nations Department of Economic and Social Affairs
UN-ESCWA	United Nations Economic and Social Commission for West Africa
UNC	The Water Institute at University of North Carolina
UNDP	United Nations Development Programme
UNDP GAIN	UNDP Global Anti-corruption Initiative
UNECE	United Nations Economic Commission for Europe
UNEP	United Nations Environment Programme
UNEP-DHI	UNEP-DHI Centre for Water and Environment
UNESCO	United Nations Educational, Scientific and Cultural Organization
UNESCO-IHE	UNESCO – Institute for Water Education
UNESCO-IHP	UNESCO International Hydrological Programme
UNFCCC	United Nations Framework Convention on Climate Change
UNGC CEO Water Mandate	United Nations Global Compact CEO Water Mandate
UN-Habitat	United Nations Human Settlements Programme
UNICEF	United Nations Children's Fund
UNIDO	United Nations Industrial Development Organization
UNIGE	University of Geneva
UNIOESTE	Universidade Estadual do Oeste do Paraná
University of Dundee	
UNOSD	United Nations Office for Sustainable Development

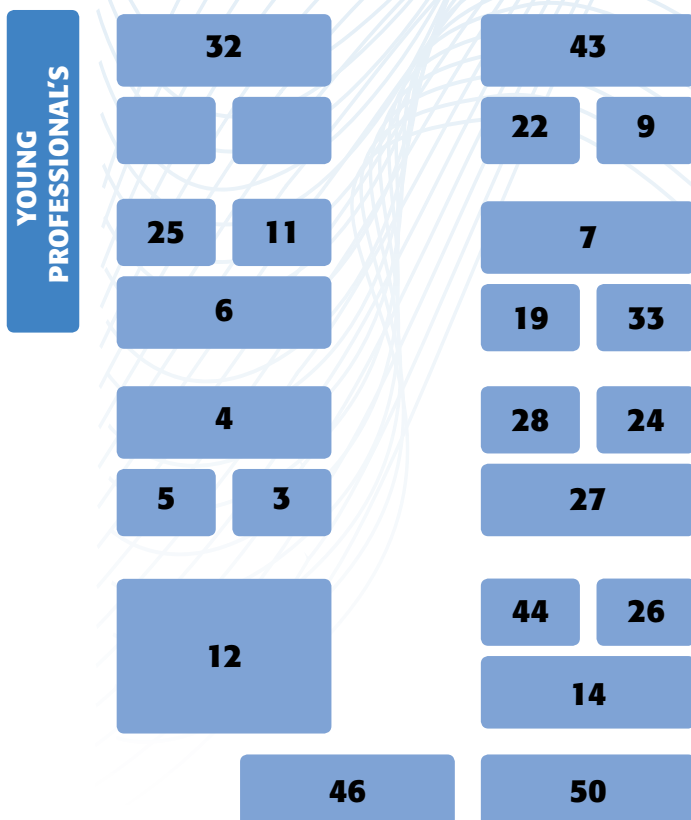
UNSGAB	United Nations Secretary General's Advisory Board on Water and Sanitation
UNU	United Nations University
UNU-EHS	United Nations University Institute for Environment and Human Security
UNU-FLORES	United Nations University – Institute for Integrated Management of Material Fluxes and of Resources
UNU-INWEH	United Nations University-Institute for Water, Environment and Health
UN-Water	
UNW-DPAC	UN-Water Decade Programme on Advocacy and Communication
UNW-DPC	UN-Water Decade Programme on Capacity Development
US Department of State	
USAID	United States Agency for International Development
USIP	U.S. Institute of Peace
USSC	United States Studies Centre at the University of Sydney
USWP	US Water Partnership
WASTE	
Water for People	
WaterAid	
WaterLex	
Vattenfall	
WB	World Bank Group
WBCSD	World Business Council for Sustainable Development
VEI	Vitens Evides International
Veolia	
Wetsus	
WFN	Water Footprint Network
WfW	Women for Water Partnership
WGF at SIWI	UNDP Water Governance Facility at SIWI
WHO	World Health Organization
Wilson Center	Woodrow Wilson Center International Center for Scholars
WIN	Water Integrity Network
WLE	CGIAR Research Program on Water, Land and Ecosystems led by IWMI
WRC	Water Research Commission
WRI	World Resources Institute
WSP	Water and Sanitation Program
WSSCC	Water Supply and Sanitation Collaborative Council
WULCA	
WUR	Wageningen University
WWAP	World Water Assessment Programme
WWC	World Water Council
WWF	World Wide Fund for Nature
WWFKNC	The National Committee for the 2015 World Water Forum Korea
WYN	Water Youth Network
XMU	Xiamen University
Xylem	

VENUE AND EXHIBITORS OVERVIEW

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| 37 | United Nations Human Settlements Programme (UN-Habitat) | | |
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| 39 | United Nations University Institute for Integrated Management of Material Fluxes and of Resources (UNU-FLORES) | | |
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COFFEE STATION



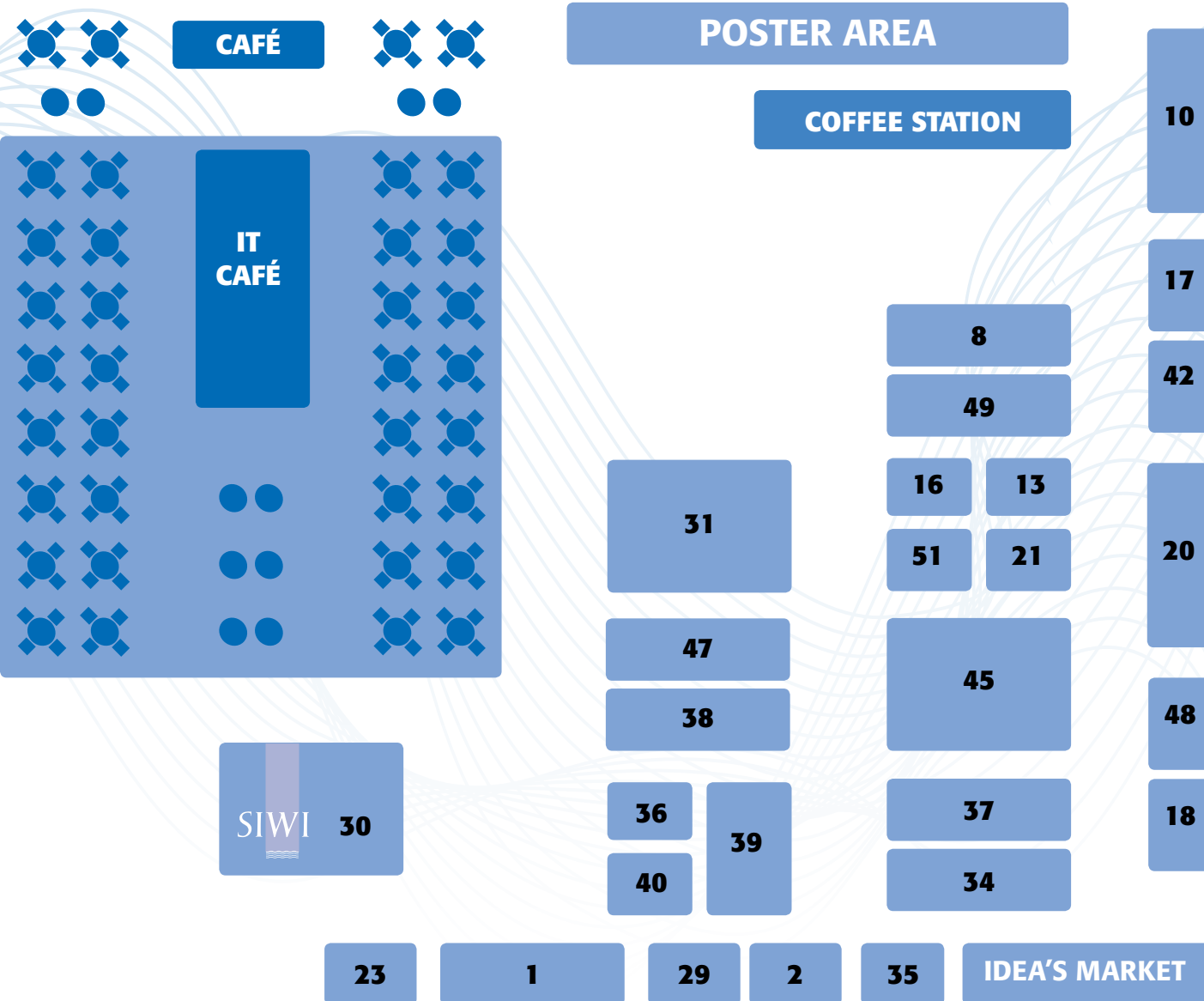


GUIDED TOURS

of the exhibition will take place:

Sunday 15:00
Monday 15:00
Wednesday 13:00
and 17:00

Sign up at the Secretariat!



**HALL B
ENTRANCE**

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MONDAY

TUESDAY

WEDNESDAY

THURSDAY

FRIDAY

SOCIAL/AWARDS

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  Workshop
  Seminar
  Side Event
  Award, Social Event & Field Visit

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 MH = Main Hall
 VH = Victoria Hall
 CH = City Hall
 FV/E = Field Visit/Excursion
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SUNDAY August 31

MORNING • 09:00-12:30

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Securing Water, Energy, Sanitation and Livelihoods through Consensus: Community Led Approaches in Africa	Africa AHEAD	SEI	K16/ K17	19
Water and Energy: Expounding on the 2014 World Water Development Report	WWAP	UNESCO	K11	20
Water Quality, Energy, and Climate Change	Pacific Institute	UNEP	K21	21

LUNCH • 12:45-13:45

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Destination Daegu-Gyeongbuk: 7th World Water Forum	7 th World Water Forum Secretariat	WWC	K16/ K17	22
Global Monitoring of WaSH: A 2014 Update	UNICEF and WHO	—	K21	22
Water Security Partnerships for People Growth and the Environment	2030 WRG	—	K22/ K23	23

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EXCURSION UNDER THE BRIDGES BOAT TRIP. More information on page 136.



FOOD & DRINKS INCLUDED



EVENT DESCRIPTIONS AND RELATED RESOURCES

Use our online programme to browse the events and to plan your own schedule. Please visit **programme.worldwaterweek.org**.

Seminars	Convenors	Co-Convenors	Room	Page
Energy Investments and Infrastructure Providing Benefits Across the Nexus	IUCN and IWA	EDF, GIZ, UNECE, US Department of State and WRI	K11	24
EU Water Initiative Multi-Stakeholder Forum	EC	SIWI	T5	25
How the Two Global Water Conventions Support Transboundary Water Cooperation?	UNECE	FWF, Government of Hungary, Government of the Netherlands, Green Cross International, IUCN, MAE, Ministry of Environment, Water and Forests, Ivory Coast, Ministry of Foreign Affairs Finland, SIWI, UNESCO, UNEP-DHI, University of Dundee and WWF	T6	26
Malin Falkenmark Seminar: Managing Centres of Booming Water Expectations in Basins and Regions of Change	SEI, SIWI and SRC	–	K21	27
Tackling Trade-Offs between Water and Energy across Sectors and Scales	SWP	2030 WRG, cewas, CSD Engineers, ETH Zürich, GIWEH, Group E, iDE, IWMI, Ministry of Water Resources of the Republic of Iraq, Nestlé, Sandec, SDC, Skat, SoPAS and UNIGE	K22/ K23	28
The Next Big Paradigm Shift: From Linear to Circular Economy, the Water-Energy-Resources Nexus	Veolia	Growing Blue, WBCSD and WWF	K16/ K17	29

Side Events	Convenors	Co-Convenors	Room	Page
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Energy and Resource-Efficient Water Treatment: What Future for Nanotechnologies?	UNESCO-IHP	UNIDO	T5	
Post-2015 Target on “Universal Access to Drinking Water” – What Water Quality?	BMZ, GIZ and UNSGAB	JMP	K21	
Six Years On: a Success Story of Corporate and NGO Collaboration	Water for People and Xylem	–	K22/ K23	
Water-Energy Nexus Capacity Development: Assessing Needs and Exploring Innovative Approaches	Cap-Net UNDP	IIASA and SE4All	K11	

NOTES

SUNDAY • 09:00-12:30

DOES WATER FOOTPRINT ASSESSMENT
ENHANCE SUSTAINABLE MANAGEMENT
OF RIVER BASINS?K22/
K23Convenor: **WFN**Co-Convenors: **Agualimpia-Suizagua and WWF**

Increased demands with growing populations and climate change effects on the water cycle, are posing greater threats to sustainability of basins globally. The goals of Integrated River Basin Management (IRBM) have not been met, partly due to the lack of a common language bringing together the perspectives of multiple stakeholders in a clear and comparable way. Emerging tools and approaches such as Water Footprint Assessment (WFA) are increasingly being used to build a shared understanding of water uses and to support equitable benefit sharing in the context of food-energy-water security goals.

The event explores, through practical examples, how these emerging tools and approaches are being used to investigate the conflicts, trade-offs and synergies between water uses within specific river basins. Insights from the SUIZAGUA public-private initiative in Latin America will be shared.

The discussion will focus on challenges, opportunities and limitations in applying WFA in practice. An open discussion session engaging the audience will build a common understanding of the problems at hand, holistic approaches and a way forward for WFA as a useful tool for water managers.

09:00 Welcome and Opening Remarks.

► Ms. Ruth Matthews, WFN

Water Footprint Assessment (WFA): State of Art

09:10 WFA in a Water Regulatory Context – A Case from Environment Agency of England.

► Dr. G. P. Zhang, WFN

09:30 SUIZAGUA: Engagement with Businesses, Governments, and Other Initiatives in LA using WFA as a Tool in River Basin Water Management.

► Mr. Alejandro Conza, Agualimpia

► Ms. Ulrike Broschek, Fundación Chile

09:50 WFA in the Textile Sector in Bangladesh – A Cluster Approach for Multiple Industries in a Region.

► Dr. Ertug Ercin, WFN

10:10 Q&A.

10:30 Coffee Break.

Panel Discussion: WFA and its Application in River Basin

11:00 Introduction.

► Dr. Dave Tickner, WWF

10:10 Panellists.

► Dr. A.K. Chapagain, WFN

► Dr. Guillermo Fajardo, Duke Energy International

► Dr. Guy Pegram, Pegasys (tbc)

► Dr. Brian Richter, TNC (tbc)

12:00 Q&A.

12:20 Wrap-Up.

12:30 Close of Seminar.

SECURING WATER, ENERGY, SANITATION AND LIVELIHOODS THROUGH CONSENSUS: COMMUNITY LED APPROACHES IN AFRICA

K16/
K17

Convenor: **Africa AHEAD**

Co-Convenor: **SEI**

This seminar examines a methodology for achieving sustainable and fully functional communities within four years to manage their own development initiatives. This is a proven model of development using voluntary village structures known as Community Health Clubs (CHCs) as a vehicle for development enabling villages to transit through four stages, one each year:

1. Health Education, Hygiene Promotion
2. Sanitation and Solid Waste Disposal
3. Water and Energy
4. Food Agriculture and Nutrition.

The session will not only provide an insight into the social psychology of the CHC Model but also provide findings from

case studies on each stage drawn from Zimbabwe, Rwanda and Uganda. By enabling people to work effectively as a group to achieve consensus, safe hygiene and sanitation can be achieved, existing water can be made potable, food can be grown and preserved, deforestation averted and 80 per cent of common diseases that affect the poorest of the poor can be minimised through the empowerment of women.

This seminar provides an opportunity for discussion and debate as to whether this Model is replicable at scale in other countries as we seek practical ways to 'Fight Poverty Post-2015 by securing access to energy, food and water'.

- 09:00 Social Psychology of the CHC Model.
► Dr. Juliet Waterkeyn, Africa AHEAD
- 09:20 Hygiene Behaviour Change through CBEHPP in Rwanda.
► Dr. Fidele Ngabo, Ministry of Health, Rwanda
- 09:40 Community-Based Sanitation Programs in Burera District, Rwanda.
► Dr. Nelson Ekane, SEI
- 10:00 Mobilising Community for Improving Water, Energy and Sanitation in Uganda.
► Mr. Dan Wolf, International Lifeline Fund
► Ms. Lisa Nash, Blue Planet
- 10:20 Tea Break with Demonstration of Appropriate Fuel Saving Technologies (Cook Stoves and Boilers).

- 10:40 FAN Clubs: Sustaining Food, Agriculture and Nutrition in Zimbabwe.
► Mr. Anthony Waterkeyn, Zimbabwe AHEAD
- 11:00 Feasibility and Sustainability of Financial Incentives for Health in a Kenyan Community.
► Dr. Caroline Ochieng, SEI
- 11:20 Community Sanitation and Hygiene in Benin.
► Mr. George de Gooijer, Embassy of The Netherlands, Benin
- 11:40 Discussion and Summary.
► Dr. Arno Rosemarin, SEI
- 12:30 Close of Seminar.



Photo: WWF-UK

NOTES

SUNDAY • 09:00-12:30

**WATER AND ENERGY: EXPOUNDING ON
THE 2014 WORLD WATER DEVELOPMENT
REPORT**

K11

Convenor: **WWAP**
Co-Convenor: **UNESCO**

Based on the principle findings and main messages of the World Water Development Report 2014, "Water and Energy", by the authors and representatives of the report's Lead Agencies, the seminar will focus on the further development and refinement of common solutions across the water and energy domains and their direct impact on sustainable development.

09:00 Welcome and Opening Remarks.

- ▶ Mr. Michel Jarraud, World Metrological Organization
- ▶ Dr. Kandeh Yumkella, SE4All
- ▶ Dr. Blanca Jimenez Cisneros, UNESCO-IHP
- ▶ Ms. Michela Miletto, WWAP

Thematic Session
09:20 Messages of the World Water Development Report 2014.

- ▶ Mr. Rick Connor, WWAP

Moderator: Dr. Adeel Zafar, UNU-INWEH

Infrastructure

- ▶ Dr. Diego Rodriguez, WB

Food and Agriculture

- ▶ Mr. Jean Marc Faures, FAO

Cities

- ▶ Mr. Andre Dzikus, UN-Habitat

Industry

- ▶ Mr. Christian Susan, UNIDO

Ecosystems

- ▶ Mr. Thomas Chiramba, UNEP

Q&A.

10:30 Coffee Break.
11:00 Regional Aspects

Moderator: Ms. Josefina Maestu, UN-WDPAC

- ▶ Ms. Annukka Lipponen, UNECE
- ▶ Mr. Andrei Jouravlev, UN ECLAC
- ▶ Ms. Carol Cherfane, UN ESCWA
- ▶ Mr. Jayakumar Ramasamy, UNESCO
- ▶ Mr. Bai Mass Taal, AMCOW

Q&A.

Conclusions

Special Guest – Focus on Gender.

- ▶ Mr. Laurent Bellet, EDF
 - ▶ Ms. Carolina Wennerholm, Sida (tbc)
- Wrap-Up and Comments from the Floor.

12:30 Close of Seminar.

WATER QUALITY, ENERGY, AND CLIMATE CHANGE

K21

Convenor: **Pacific Institute**

Co-Convenor: **UNEP**

Water, energy, and climate are closely linked, and considerable work has been done in recent years to try to identify and understand those links, with a focus on water quantity, scarcity, and use. Less work, however, has been done on the connections between energy, climate and the quality of water resources especially the risks to water quality from energy operations and climate changes. New information about how climate change will affect water quality is becoming available and there are growing threats from challenges such as enhanced fossil fuel production. This seminar will focus on the science of how climate change and related energy policies will affect water quality; and the governance/policy issues around how to manage these water quality impacts. During this seminar, information will be presented on linkages of water, energy and climate change as well as on the latest trends in water quality and the related responses.

09:00 Opening Remarks and Setting the Scene.

► Mr. Thomas Chiramba, UNEP

► Mr. Hartwig Kremer, UNEP

What do We Know About Water Quality, Energy and Climate Change? Are the Legislative Frameworks Adequate?

09:10 Water and Energy Linkages to Water Quality and Climate Change

► Dr. Peter Gleick, Pacific Institute

09:25 Which Water for which Use? Exploring Water Quality Instruments in the Context of a Changing Climate with Increasing Energy and Water Demand.

► Ms. Katharine Cross, IWA

09:40 International Water Quality Guidelines on Ecosystems Services

► Prof. Janos Bogardi, UNU-EHS

09:55 Q&A.

10:30 Coffee Break.

Worrying Water Quality Trends and Impacts: Are Country Responses Enough?

11:00 Towards the World Water Quality Assessment.

► Dr. Ilona Barlund, Helmholtz Centre for Environmental Research – UFZ

► Dr. Martina Flörke, CESR

11:15 The New Global Environmental Monitoring System (GEMS) Stat

► Mr. Philipp Saile, Federal Institute of Hydrology, Germany

11:30 Capacity Building for Global Monitoring of Water Quality

► Dr. Deborah Chapman, University College Cork, Ireland

11:45 Reversing Water Quality Deterioration: The Case of Brazil

► Mr. Marcelo Pires da Costa, National Water Agency, Brazil

12:00 Q&A.

12:30 Close of Seminar.

SUNDAY • 12:45-13:45**ACTION, INNOVATION AND LEARNING FOR MANAGING LAND, RIVERS, COASTS AND SEAS****K24**Convenor: **SIWI**Convenors: **BCC, Delta Alliance, GWP, SEI, UNDP, UNEP, UNEP-DHI and XMU**

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An Action Platform for Source to Sea Management has been formed to support innovative approaches and address the much needed linkages between land, river, coastal and ocean

management. This side event will discuss key challenges in source to sea management in need of further attention and action.

12:45 Introduction.

▶ Dr. Torkil Jønych Clausen, DHI

12:50 Successes, Recent Developments and Future Challenges in Source to Sea Management – The Danube/Black Sea Example.

▶ Dr. Ivan Zavadsky, Executive Secretary, ICPDR

13:00 Introducing the Action Platform for Source to Sea Management.

▶ Ms. Birgitta Liss Lymer, SIWI

13:10 Panel Discussion.

▶ Dr. Andrew Hudson, UNDP

▶ Dr. Ania Grobicki, GWP

▶ Dr. Jakob Granit, SEI

▶ Dr. Birguy Lamizana, UNEP-GPA

▶ Dr. Peter Koefoed Bjørnsen, UNEP-DHI

13:40 Wrap-Up.

13:45 Close of Side Event.

**DESTINATION DAEGU-GYEONGBUK: 7TH WORLD WATER FORUM****K16/
K17**Convenor: **7th World Water Forum Secretariat**
Convenor: **WWC**

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After brief welcoming statements, the outcomes of the second Stakeholder Consultation Meeting will be presented. Each preparatory process will be reviewed, with particular attention on how all stakeholders can contribute and become engaged. The event will conclude following an open question and answer session.

12:45 Welcome to the 7th World Water Forum.

▶ Prof. Benedito Braga, WWC

▶ Mr. Soontak Lee, WWC

12:50 Where are We in the Preparatory Process?

▶ Mr. Yangjin Oh

13:00 Panel Discussion: How will the World Water Forum influence the Global Agenda and Ensure Moderator: Mr. Andras Szöllösi-Nagy, UNESCO-IHE

▶ Mr. Mark Smith, IUCN

▶ Dr. Byung-man Choi, K-water Institute

▶ Ms. Sophie Auconie

▶ Mr. Sangman Jeong

13:20 Q&A.

Moderator: Mr. Andras Szöllösi-Nagy, UNESCO-IHE

13:40 Concluding Remarks.

▶ Prof. Dogan Altinbilek, WWC

13:45 Close of Side Event.

GLOBAL MONITORING OF WASH: A 2014 UPDATE**K21**Convenors: **UNICEF and WHO**

.....

Highlights from the 2014 JMP and GLAAS reports are shared, with a special focus on inequalities. Results from TrackFin, a new GLAAS initiative aiming to track financial flows into the sanitation, hygiene and drinking-water sub-sectors are presented.

12:45 Welcome and Opening Remarks.

▶ Mr. Bruce Gordon, WHO

▶ Mr. Sanjay Wijesekera, UNICEF

12:50 Highlights from the JMP 2014 Update Report, Focusing on Inequalities.

▶ Mr. Rolf Luyendijk, UNICEF

▶ Dr. Richard Johnston, WHO

13:10 Sneak Preview of the GLAAS 2014 Report: Increasing Coverage, Reducing Inequalities

▶ Dr. Fiona Gore, WHO

13:25 TrackFin, a New Initiative.

▶ Dr. Fiona Gore, WHO

13:35 Q&A

13:45 Close of Side Event.

Photo: Panos Images



WATER SECURITY PARTNERSHIPS FOR PEOPLE GROWTH AND THE ENVIRONMENT

K22/
K23

Convenor: **2030 WRG**

The 2030 Water Resources Group is a unique public-private-civil society partnership that is helping governments to accelerate water resources reforms. By forming platforms between the

public and private sectors and civil society, integrated projects get implemented that help close the severe water resources gap that countries are facing.

12:45 Welcome.

► Mr. Anders Berntell, 2030 WRG

12:50 Opening Remarks.

► Mr. Daniel W. Bena, PepsiCo

12:55 Water – A Critical Resource to Conserve

► Ms. Mercedes Castro, Agualimpia

13:00 Convening – Partnerships for Action.

► Dr. D Dorjsuren, 2030 WRG

► Country Representative, Mongolia

13:05 Transforming – Projects to Close the Water Gap.

► Mr. Nick Tandi, Strategic Water Partnerships

13:10 Panel Discussion: The Private Sector – Together, How Can Tackle Water Resources?

Moderator: Mr. Cesar Fonseca, 2030 WRG

► Country Representative for Peru

► Dr. Dilip N. Kulkarni, Jain Irrigation

► Ms. Jane Joseph, Water Witness International

► Mr. Roman Gomez Gonzalez Cosio, 2030 WRG

13:25 Q&A.

13:45 Close of Side Event.

SUNDAY • 14:00-17:30

ENERGY INVESTMENTS AND INFRASTRUCTURE PROVIDING BENEFITS
ACROSS THE NEXUS

K11

Convenor: **IUCN and IWA**Co-Convenors: **EDF, GIZ, UNECE, US Department of State and WRI**

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 energy 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.

14:00 Welcome and Opening Remarks.

Chair: Dr. Ger Bergkamp, IWA

Enabling Environment for Investing in the Energy Sector: Understanding Benefits and Trade-Offs

14:05 Keynote.

► H. E. Dr. Lisa Emilia Svensson, Swedens Ambassador for Oceans, Seas and Freshwater

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, USA

14:40 Transboundary Implications of Energy Infrastructure on Water Resources: Considerations and Approaches.

► Dr. Annukka Lipponen, UNECE

14:50 Q&A.

15:00 Roundtable Discussion.

Moderator: Ms. Katarine Cross, IWA

15:30 Coffee Break.

Investment in Nexus Infrastructure and the Impacts on Water, Energy and Food Security

Chair: Ms. Ulrike Pokorski, GIZ

16:00 Serre-Ponçon (France) and Nam Theun 2 (Lao PDR) Hydro Schemes: Two Locations, Two Different Time Periods But the Same Positive Impacts from a “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

16:25 Q&A.

16:30 Investment Aspects for Energy Efficiency in Water Infrastructure – Energy Contracting Model.

► Mr. Marek Rawashdeh, Water Authority of Jordan

16:40 Keynote.

► Mr. Jordan Macknick, US Department of Energy – National Lab for Renewable Energy

17:00 Panel Discussion.

17:30 Close of Seminar.

EU WATER INITIATIVE MULTI-STAKEHOLDER FORUM

T5

Convenor: **EC**Co-Convenor: **SIWI**

The seminar is organised under the framework of the annual EU Water Initiative Multi-stakeholder Forum. The seminar wants to present and draw attention on the role of water as a driver for Green Economy and infrastructure development. It will present good practice, examples and debate on further actions. In this context, a special focus will be given to interactions between water and energy.

The EU Water Initiative, EUWI, is an international political initiative using a partnership approach, bringing together

national governments, donors, the water industry, NGOs and other water actors. The EUWI is working to reinforce political commitment to the water agenda, to create a strong and integrated framework for EU action, and is active in regional components: Africa, Eastern Europe Caucasus and Central Asia (EECCA), Latin America, the Mediterranean and the China-EU Water Platform.

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| <p>14:00 Welcome and Opening Remarks.</p> <ul style="list-style-type: none"> ▶ Ms. Marta Moren Abat, EC ▶ Mr. André Liebaert, EC ▶ Dr. Håkan Tropp, SIWI <p>14:10 Addressing the Knowledge Base of the Water-Energy-Food Nexus as a Support to Policy Decisions.</p> <ul style="list-style-type: none"> ▶ Mr. Giovanni Bidoglio, EC (tbc) <p><i>Concrete Regional Opportunities</i></p> <p>14:30 Panel Discussion: EUWI Working Group for Eastern Europe Caucasus and Central Asia – Managing Water Infrastructures for Green Growth.</p> <ul style="list-style-type: none"> ▶ Mr. Xavier Leflaive, OECD ▶ Mr. Bo Libert, UNECE <p>15:00 Panel Discussion: EUWI Working Group for the Mediterranean Region: Fostering the Application of the Water, Energy, Food Nexus Approach.</p> <ul style="list-style-type: none"> ▶ Ms. Anthi Brouma, GWP-Med (tbc) ▶ Mr. Dimitris Faloutsos, GWP-Med (tbc) ▶ Representatives from OSS, UNECE, JRC (tbc) <p>15:30 Coffee Break.</p> <p>16:00 Panel Discussion: EUWI Working Group for Africa. Concrete Regional Opportunities, Focusing on the Water-Energy-Food Nexus and Infrastructure Development.</p> | <ul style="list-style-type: none"> ▶ Dr. Rashid Mbaziira, AMCOW ▶ Mr. Innocent Kabenga, Strengthening Institutions for Transboundary Water Management in Africa ▶ Mr. Nico Elema, NEPAD Centres of Excellence ▶ Mr. James Leten, SIWI ▶ Representative from African Energy or Infrastructure (tbc) <p>16:30 Presentations from Other Regional Components and Additional Inputs:</p> <ul style="list-style-type: none"> ▶ EUWI WG for Latin America (tbc) ▶ China-EU Water Platform (Nexus Cluster). ▶ Mr. Josh Weinberg, SIWI <p>Water Component of the EU LIFE Programme</p> <ul style="list-style-type: none"> ▶ Mr. Carlos de la Paz, EC <p>16:55 Panel, Introduced by Remarks from Civil Society and Business Stakeholders, with a Representative of the Nexus Resource Platform (GIZ) and Members of EUWI Regional Components.</p> <p>17:25 Concluding Remarks.</p> <p>17:30 Close of Seminar.</p> |
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SUNDAY • 14:00-17:30

HOW THE TWO GLOBAL WATER CONVENTIONS SUPPORT TRANSBOUNDARY WATER COOPERATION?

T6

Convenor: **UNECE**

Co-Convenors: **WWF, Government of Hungary, Government of the Netherlands, Green Cross International, IUCN, MAE, Ministry of Environment, Water and Forests, Ivory Coast, Ministry of Foreign Affairs, Finland, SIWI, UNESCO, UNEP-DHI, University of Dundee and WWF**

2014 is a special year for transboundary water cooperation. Two global legal frameworks now foster cooperation between countries, sectors and other stakeholders in transboundary basins: the 1997 UN Convention on the Law of the Non-Navigational Uses of International Watercourses (UN Watercourses Convention) enters into force and the 1992 Convention on the Protection and Use of Transboundary Watercourses and International Lakes (UNECE Water Convention or Helsinki Convention) is opened for worldwide accession.

The seminar will celebrate these major steps forward in international water law and discuss how the two global treaties can be implemented in an effective, coherent and mutually supportive way.

Cooperation examples from transboundary basins will illustrate how the legal frameworks help countries to create adequate river basin governance structures, assist in establishing new and in improving existing agreements, prevent conflicts and address other challenges such as balancing multiple water uses or climate change adaptation.

The creation of common knowledge platforms is one way to support the implementation of the Conventions. The Transboundary Waters Assessment Programme (TWAP) is undertaking a global, comparative, assessment, highlighting priorities for action. First results will be presented, including basin profiles, focusing on key issues, governance aspects, and vulnerability of transboundary river basins and aquifers.

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| <p>14:00 Welcome and Opening Remarks.
 ▶ Mr. Nicholas Bonvoisin, UNECE
 ▶ Ms. Alice Aureli, UNESCO</p> <p>14:05 Two Global Water Conventions: The UNECE Water Convention and the UN Watercourses Convention.
 ▶ Mr. Alistair Rieu Clarke, Dundee Centre for Water Law, Policy & Science, UK</p> <p>14:15 Recent Progress in Strengthening Frameworks for Transboundary Water Cooperation.
 ▶ Mr. Seppo Rekolainen, Finnish Environment Institute</p> <p>14:25 Panel Discussion: Why Are the Water Conventions Useful for Our Transboundary Water Management?
 Moderator: Dr. Alejandro Iza, IUCN
 ▶ Ms. Diana Bejko, Deputy Minister, Albania Ministry of Environment
 ▶ Côte d'Ivoire (tbc)
 ▶ Mr. Niels Vlaanderen, IenM
 ▶ Mr. Michael Tozan, Ministry of Environment, Water and Forests, Côte d'Ivoire</p> <p>15:15 First Results of the Transboundary Waters Assessment Programme (TWAP), One Possible Tool to Support the Implementation of the Conventions in the Future – Which Priorities for Action?
 ▶ Mr. Peter Koefoed Bjørnsen, UNEP-DHI</p> | <p>15:45 Coffee Break.
 Moderator: Ms. Alice Aureli, UNESCO</p> <p>16:15 Implementing and Promoting the UN Watercourses Convention on the Ground. Experience of the Senegal basin or SADC.
 ▶ Mr. Lamine Ndiaye, Senegal River Development Organization</p> <p>16:25 How the Institutional Framework of the UNECE Water Convention Supports Implementation of International Water Law.
 ▶ (tbc)</p> <p>16:35 Panel Discussion: How Can the Two Global Water Conventions Support Cooperation on Transboundary Water Resources and Interact with Each Other in the Future?
 Moderator: Ms. Lesha Witmer, WWF</p> <p>17:20 Concluding Remarks.
 ▶ Mr. Fabien Dupuis, Ministry of Foreign Affairs and International Development, France
 ▶ Dr. Lifeng Li, WWF</p> <p>17:30 Close of Seminar and Reception Offered by the Government of The Netherlands at the WWF Booth.</p> |
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MALIN FALKENMARK SEMINAR: MANAGING CENTRES OF BOOMING WATER EXPECTATIONS IN BASINS AND REGIONS OF CHANGE

K21

Convenors: **SEI, SIWI and SRC**

In dry climate regions under development, economically driven water demands are making urban areas into booming demand bubbles in resource constrained river basins, subject to ongoing climate change. Since meeting such water requirements is a precondition for economic development, long lead times and limited hydrologically defined basin water potentials, the water supply arrangements need preparedness and advance planning by coordination with other catchment activities to ensure mutual water security. Since the water resource has to meet also other basic, and often expanding water uses in the basin, such as for food and renewable energy, these water requirements represent considerable challenges. Resilience building will be crucial to secure both long term health, food, manufacturing, and energy security, and the economic development in such demand bubbles.

This means a water resilience, supported by governance and management regimes that ensure favourable partitioning of rainfall over the basin into green and blue water flows through the land use mosaic with its booming urban centres.

Based on a set of case studies, the seminar will review typical developing centre predicaments that can be foreseen, and analyse emerging challenges, how different water needs can be combined, the link to surrounding land use changes, the possible role of landscape location for finding solutions, and strategies for resilience-building of the larger region and/or basin.

Potential case studies might be sought among cities with different catchment locations such as water divide, foot hills, river valley, and coastal region.

Chair: Dr. Line Gordon, SRC

14:00 Welcome and Opening Remark.

► Mr. Torgny Holmgren, SIWI

14:05 Key Note: Centres of Booming Water Expectations – a Global Outlook.

► Prof. Malin Falkenmark, SIWI and SRC

14:20 The Resilience Lens Applied on Booming Water Futures.

► Dr. Johan Rockström, SRC

14:00 Energy and Economic Growth – Can Future Demand for Energy be Met in a Sustainable Manner?

► Mr. Per Klevnäs, SEI

15:00 Case 1: Rural and Urban Water Conflicts – Kathmandu and Melamchi River.

► Dr. Dipak Gyawali, Nepal Water Conservation Foundation

15:20 Coffee Break.

15:45 Case 2: Increased Energy Demand for Serving Water in Chinese Cities: Qingdao Case.

► Dr. Lijin Zhong, WRI

16:05 Case 3: Sustainable Urban Water and Energy Solutions in Africa.

► Dr. Akissa Bahri, AWF

16:20 Panel Discussion.

Moderator: Dr. Johan Kuylensstierna, SEI

► Mr. Per Klevnäs, SEI

► Dr. Dipak Gyawali, Nepal Water Conservation Foundation

► Dr. Lijin Zhong, WRI

► Dr. Akissa Bahri, AWF

17:20 Summary.

► Dr. Mats Eriksson, SIWI

17:30 Close of Seminar.

SUNDAY • 14:00-17:30

TACKLING TRADEOFFS BETWEEN WATER AND ENERGY ACROSS SECTORS AND SCALES

K22/
K23Convenor: **SWP**Co-Convenors: **2030 WRG, cewas, CSD Engineers, GIWEH, Group E, iDE, IWMI, Ministry of Water Resources of the Republic of Iraq, Nestlé, Sandec, SDC, Skat, SoPAS and UNICE**

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This seminar highlights the main challenges to achieve water, energy and food security and discusses existing and promising future solutions (demand side, supply side and creating shared benefits) across sectors (WASH, agriculture, energy) and scales (household, peri-urban, basin level). The asymmetrical distribution of and competition for water and energy in a changing world require innovative solutions like joint planning and/or co-management of efficient technologies/infrastructures together with the development of coherent policies and business models contributing to their up-scaling.

Swiss advanced solutions

Managing the demand: Integrated wastewater and energy management models and combining efficient technologies to improve water, energy and food security.

Increasing the supply: combined solutions (using the potential energy in drinking water and irrigation systems, linking sanitation to energy production and agriculture with a business approach).

Creating shared benefits: creating an enabling environment for neighboring countries to manage water and energy in a transboundary watercourse (coherent policies, joint ownership of water and energy infrastructure)

Reality test

Country cases: Tanzania and Iraq: main challenges to achieve water, energy and food security and critical discussion of solutions presented. Roundtable discussions exploring scalability of solutions and prerequisites fostering cross sectoral collaboration.

14:00 Setting the Scene: The Challenges

► Ms. Olga Darazs, SWP

Swiss Advanced Solutions: Managing the Demand**14:15 Integrated Wastewater and Energy Management Solutions.**

► Mr. Alain Sapin, Group E

► Mr. Stéphane Maret, CSD Engineers

14:25 More Crop Per Drop: Efficient Irrigation Technologies Combined With Solar Energy and Market Approaches.

► Mr. Tim Prewitt, iDE

► Mr. Urs Heierli, SoPAS

Swiss Advanced Solutions: Increasing the Resources Available**14:45 Combined Solutions: Using Energy in Drinking Water Systems and in Irrigation Systems.**

► Mr. Martin Bölli, SKAT Consulting

14:55 Synergies Instead of Trade-Offs: Linking Sanitation to Energy Production and Agriculture with a Business Approach.

► Mr. Christian Zurbrugg, Eawag/Sandec

► Mr. Michael Kropac, Cewas/Seecon

Swiss Advanced Solutions: Creating Shared Benefits**15:15 Joint Ownership of Infrastructure in a Transboundary Watercourse Fostering Cooperation of Water and Energy Resources.**

► Mr. Makane Moise Mbengue, University of Geneva, Switzerland

15:25 Blue Peace Initiative Incentivising Coherent Policies to Manage Water and Energy in a Transboundary Watercourse.

► Mr. Johan Gély, SDC

15:45 Coffee Break.**Reality Test: Country Cases****16:05 Country Case Tanzania: Challenges and Relevance of the Proposed Solutions.**

► Mr. Anders Berntell, 2030 WRG

16:15 Water Food Energy Nexus in Iraq and Middle East

► Ms. Shirouk Abayache, Ministry of Water Resources, Republic of Iraq

► Prof. Nidal Salim, Global Institute for Water, Environment and Health

16:25 Reality Test: Panel Discussion

► Mr. Bob Nanes, iDE

► Ms. Shirouk Abayache, Ministry of Water Resources of the Republic of Iraq

► Mr. Johan Gély, SDC

► Mr. M. Sapin, Group E

► Mr. Anders Berntell, 2030 WRG

17:05 Wrap-Up.

► Ms. Olga Darazs, SWP

17:30 Close of Seminar.

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**K16/
K17**

Co-Convenors: **Growing Blue** and **WBCSD**

Moving away from the traditional consumptive models requires an increase in recycling and reuse of materials and water. It also demands creativity to overcome the divide between industry and community, and the silos of water, energy and resource management. Exploring such largely untouched spaces will make it possible to transform the mismatch between resources and growth into an exciting new economic, social and environmental revolution. In order to achieve this, we need to change our thinking and address these issues in a collaborative manner.

All actors in the water world are essential in this new dynamic, to better resource the world. Forward looking institutions and stakeholders are invited to join this pioneering dialogue rooted in holistic thinking, to determine how to ramp up the circular economy beyond the silos of water, energy and waste, and how to build bridges among industries, municipalities and civil society.

- 14:00 Paradigm Shift and Exciting New Dynamic.
▶ Mr. Laurent Auguste, Veolia
- 14:15 The Water-Resources-Energy Nexus: Towards Circular Economy.
▶ Dr. Martin Stuchtey, McKinsey & Co
- 14:55 Panel Discussion: Gathering Promising Experiences.
Moderator: Mr. Stuart Orr, WWF
▶ Mr. Joppe Cramwinckle, WBCSD
▶ Mr. Jason Morrison, UNGC CEO Water Mandate
▶ Mr. Carlo Galli, Nestlé
▶ Dr. Jacob Illeris, Veolia
▶ Dr. Diego Rodriguez, WB
- 16:00 Coffee Break.
- 16:15 Panel Discussion: Making the Best of Good Ideas.
Moderator: Mr. Ed Pinero, Growing Blue
▶ Ms. Anna Halpern-Lande, Shell
▶ Ms. Lisa Downes, Alliance for Water Stewardship, TNC
▶ Mr. Kjell Øyvind Pedersen, IVAR-IKS, Stavanger Municipality
▶ Mr. Johannes-Bastiaan Mohrmann, 2030 WRG
- 17:20 Wrap-Up.
▶ Mr. Laurent Auguste, Veolia
- 17:30 Close of Seminar.

SUNDAY • 17:45-18:45

BOOK LAUNCH AND MINGLE:
WATER RESILIENCE FOR
HUMAN PROSPERITY

T6

Convenor: **SRC**

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Welcome to an informal mingle and presentation of the book "Water Resilience for Human Prosperity" with Johan Rockström, Malin Falkenmark and their co-authors. The book presents a new approach to water-resource governance in the context of rapid global change. Light food and drinks will be served.

17:45 Welcome and Opening Remarks.

▶ Prof. Johan Rockström, SRC

17:50 Presentation of Book.

▶ Prof. Malin Falkenmark, SIWI

▶ Prof. Johan Rockström, SRC

18:10 Q&A.

18:45 Close of Side Event.

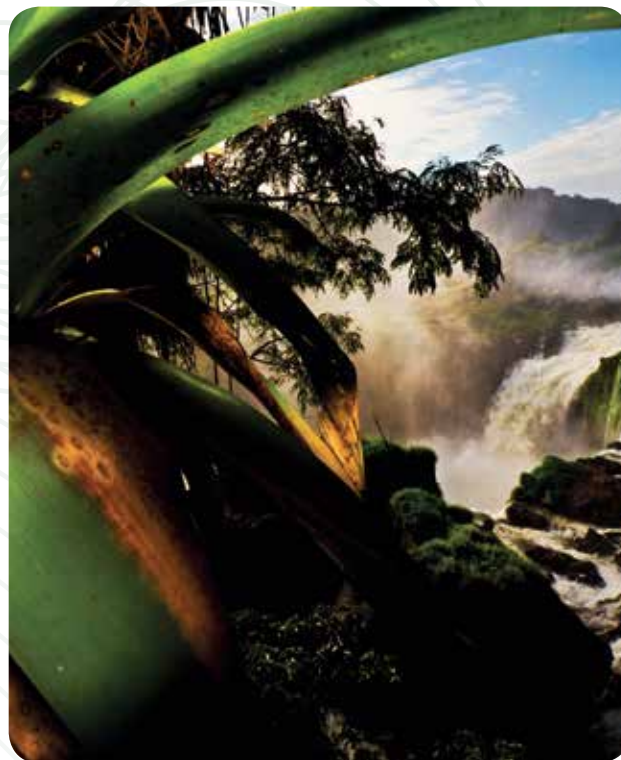


Photo: Mattias Klum

ENERGY AND RESOURCE-EFFICIENT WATER TREATMENT:
WHAT FUTURE FOR NANOTECHNOLOGIES?

T5

Convenor: **UNESCO-IHP**Co-Convenor: **UNIDO**

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The event presents the ongoing work of a new UNESCO activity on innovative solutions to water quality and wastewater management. Discussions will focus on: What is the potential

of nanotechnologies in water and wastewater treatment? What are barriers to nanotechnology in water applications? What are environmental and health risk considerations?

Moderator: Dr. Sarantuyaa Zandaryaa, UNESCO

17:45 Welcome and Opening Remarks.

▶ Dr. Blanca Jimenez-Cisneros, UNESCO-IHP
Innovative Approaches to Energy and
Resource-Efficient Water Treatment: UNESCO
Activities for Promoting Science and
Knowledge.

▶ Dr. Sarantuyaa Zandaryaa, UNESCO

17:55 Low-Energy Nanotechnology-Enabled
Approaches for Water Disinfection and
Desalination.

▶ Prof. Pedro Alvarez, Rice University, USA
Presentation.

▶ Ms. Irene Kitsara, WIPO

A Case Study Presentation: Pilot Testing of
Solar Photocatalytic Water Disinfection in Rural
Areas in Peru.

▶ Dr. Juan Rodríguez, Universidad Nacional de Ingeniería, Peru

18:30 Panel Discussion.

18:45 Close of Side Event.

POST 2015-TARGET ON “UNIVERSAL ACCESS TO DRINKING WATER” – WHAT WATER QUALITY?

K21

Convenors: **BMZ, GIZ and UNSGAB**

Co-Convenor: **JMP**

How will UN proposals on “universal access to drinking water” respond to concerns on water quality and mean that states endeavor to provide everyone with water which is really safe?

17:45 Welcome and Opening Remarks.

Chair: Dr. Uschi Eid, UNSGAB

17:50 What Water Quality – Discussion of MDG Approach, Current JMP Proposals and UNSGAB Suggestions In Light of the State of the Post-2015 Process.

► Mr. Gérard Payen, Member of UNSGAB

How to monitor this? What aims do states set Post-2015 regarding drinking water access and the human right?

18:00 Panel Discussion.

Opening Video Message.

► Ms. Catarina de Albuquerque, UN Special Rapporteur on the Right to Safe Drinking Water and Sanitation

► Mr. Franz-Birger Marré, BMZ

► Dr. Richard Johnston, JMP

► Mr. Gérard Payen, Member of UNSGAB
Q&A.

18:45 Conclusion.

► Dr. Uschi Eid, UNSGAB

18:45 Close of Side Event.

SIX YEARS ON: A SUCCESS STORY OF CORPORATE AND NGO COLLABORATION

K22/
K23

Convenors: **Water For People and Xylem**

Since 2008, Xylem and Water For People have worked together, transforming the water, sanitation, and hygiene (WASH) sector and changing the lives of women and girls. This event will provide details and learnings coming from this collaboration, and describe the impact and future of the work.

17:45 Welcome and Introduction: The Power of Public-Private Partnerships

► Mr. Chuck Chaitovitz, GETF and USWP

17:55 Impactful Partnership: Water For People and Xylem Collaboration in India.

► Mr. Arumugam Kalimuthu, Water For People

18:10 Panel and Audience Discussion.

Facilitator: Mr. Chuck Chaitovitz, GETF and USWP

► Mr. Arumugam Kalimuthu, Water For People

► Mr. Michael Fields, Xylem

► Mr. Jailan Adly, MBAs without Borders

18:45 Close of Side Event.

WATER-ENERGY NEXUS CAPACITY DEVELOPMENT: ASSESSING NEEDS AND EXPLORING INNOVATIVE APPROACHES

K11

Convenor: **Cap-Net UNDP**

Co-Convenors: **IIASA and SE4All**

Water-Energy Nexus has emerged as a major policy and management instrument in local and international discourse on sustainable development. Capacity development is required to operationalise and optimise the benefits of the nexus perspective. The workshop is an exploratory event to assess needs and explore innovative approaches for nexus capacity development.

17:45 Gathering and Short Introduction.

17:55 Preparation for Group Work.

Moderators: Mr. Kees Leendertes, Cap-Net UNDP, Mr. David Wiberg, IIASA, Mr. Paul T. Yillia, IIASA/SE4All and Mr. Piotr Magnuzewski, IIASA

18:00 Q&A.

18:30 Prioritising Answers from Discussions.

18:35 Conclusion.

18:45 Close of Side Event.

MONDAY September 1

MORNING	Plenary	Speakers	Room	Page
	Opening Plenary	Ms. Karin Lexén, Mr. Torgny Holmgren, Ms. Hillevi Engström, Mr. Sten Nordin, Dr. John Briscoe and H.E. President Ellen Johnson Sirleaf	VH	34
	High Level Panel	Mr. Simon Maxwell, Dr. Kandeh Yumkella, Ms Anita Marangoly George, Dr. Junaïd Ahmad and Ms. Julia Marton-Lefèvre	VH	34

LUNCH • 12:45-13:45	Side Events	Convenors	Co-Convenors	Room	Page
	A New Model of Public and Corporate Engagement in Flow Restoration	NGS	BEF	K21	36
	A Participatory Approach to Water Management: A Case from the Arab Region	IUCN	CEDARE, PHG and UAE	K11	36
	Innovation at the Water/Food Nexus: Securing Water for Food Awardees	BuZa, Sida and USAID	—	K22/ K23	37
	Water and Energy Nexus: Smart Investments to Help Realise Human Rights	WaterLex	UNEP	K24	36
	Water Legislation Reforms: Securing Environmental Concerns and Renewable Energy	SWH	SIWI, SwAM, WWF and Ministry of the Environment, Sweden	K16/ K17	37



EVENT DESCRIPTIONS AND RELATED RESOURCES

Use our online programme to browse the events and to plan your own schedule. Please visit www.worldwaterweek.org.



FOOD & DRINKS INCLUDED



INTERACTIVE WORKSHOP POSTER SESSIONS IN THE EXHIBITION HALL.

Monday, Tuesday and Wednesday, 17:45-18:45.

Seminars	Convenors	Co-Convenors	Room	Page
Framing the Water-Energy Nexus within the Post-2015 Development Agenda	IIASA, SE4All and SIWI	–	K21	38
Irrigation Subsidies: How to Turn from the Overuse of Water and Energy to Sustainability?	BGR and IISD	KfW	T5	39
Managing Water Variability and Competing Demands in Complex River Basins	ASI, MDBA and SIWI	–	K24	40
MENA Nexus Seminar: Regional Cooperation for Sharing Solutions	GIZ, GWOPA, SEI and SIWI	UN-ESCWA and TAMU	K11	41
New Approaches to Wastewater and Water Resource Management Monitoring in the Post-2015 Era	UN-Water, UNEP, UN-Habitat and WHO	SDC	K2	42
Partnerships for Achieving Energy-Water-Food-Nature Balance at the Basin Scale	TNC	NGS, SABMiller and WWF	K22/ K23	43
Producing Electricity with Less Water – New Perspectives for Renewables in a Water-Constrained World	IASS	IWMI, BMUB, IRENA, SUEN and WB	K16/ K17	44
Public Private Cooperation: The Key for Water and Energy Management	2030 WRG, 3GF Secretariat, DHI and SIWI	Eskom and Jain Irrigation	T2	45
Water and Energy: Getting the Priorities Right for Smallholder Farmers	CARE and IUCN	CRS and IIED	T6	46

Side Events	Convenors	Co-Convenors	Room	Page
Gender Disaggregated Indicators for Water Monitoring Assessment and Reporting	WWAP	AMCOW, SIWI, WfW and WRC	K24	47
Innovations in Sustainability for Water and Sanitation Services	SWA	DFID, DGIS, IRC, RWSN, UNICEF, USAID, UNC, WSP, WSSCC and WaterAid	T2	47
Nature-Based Solutions for Water and Energy	Forest Trends	GSF	K16/ K17	48
The Global Dialogue on Water Security and Sustainable Growth	GWP	OECD	K21	48
Transformation through Collaboration: How Can Partnerships Maximise Impact?	HSBC	Earthwatch, WaterAid and WWF	K22/ K23	49

AFTERNOON • 14:00-17:30

EVENING • 17:45-18:45



SOCIAL EVENT MAYOR'S RECEPTION AT CITY HALL
More information on page 139.

MONDAY 09:30-12:30

Victoria
Hall

OPENING PLENARY



09:30
Entertainment



09:35
Welcome by Chair
Ms. Karin Lexén
Director, World Water Week & Prizes
and International Processes
Stockholm International Water Institute



09:40
Welcome Address
Mr. Torgny Holmgren
Executive Director
Stockholm International Water Institute



09:50
Official Opening Address
Ms. Hillevi Engström
Minister for International Development
Cooperation
Ministry for Foreign Affairs



10:05
Welcome to Stockholm
Mr. Sten Nordin
Mayor of Stockholm



10:15
Laureate's Lecture
Dr. John Briscoe
2014 Stockholm Water Prize Laureate



10:30
Entertainment



10:40
Keynote Address (video link)
H.E. President Ellen Johnson Sirleaf
Liberia (tbc)

HIGH LEVEL PANEL



11:00
Introduction of Moderator
Mr. Simon Maxwell
Executive Chair
Climate and Development Knowledge
Network



11:10
Key Note Addresses Followed by
Panel Discussion

Dr. Kandeh Yumkella
UN Under-Secretary-General
Special Representative of the
Secretary-General and CEO
Sustainable Energy for All



Ms. Anita Marangoly George
Senior Director
Energy & Extractives
World Bank



Dr. Junaid Ahmad
Senior Director
Global Water Practice
World Bank Group



Ms. Julia Marton-Lefèvre
Director General
International Union for Conservation of Nature



12:25
Closing Remarks
Ms. Karin Lexén
Director, World Water Week & Prizes
and International Processes
Stockholm International Water Institute

12:30
End of Session

Photo: Laurent Villeret



PLEASE NOTE THE START TIME: 09:30

Opening Plenary Session

The opening plenary will introduce the theme Energy and Water, aiming to inspiring the 2014 World Water Week participants to jointly and creatively discuss issues related to energy and water and their inextricable links. It will encourage the participants to reflect upon the importance of identifying and implementing solutions to meet the challenge of supplying sustainable energy to all without overexposing our limited water resources. It will also relate to the development of the Post-2015 agenda.

Introductory and welcome addresses will set the scene followed by keynote speeches and a panel discussion by global leaders.

High Level Panel

A major challenge to the international community is to reach an agreement on the Post-2015 Development Agenda; i.e. the assessment of the Millennium Development Goals, the follow up of the “Rio+20” conference in 2012 and possible Sustainable Development Goals (SDGs). This is a critical opportunity to achieve concrete and forward-looking decisions on SDGs and to identify and implement necessary means to achieve sustainable development.

In the High Level Panel discussion, the panelists will be invited to discuss the challenges linked to the future global development agenda; water's crucial role therein and its potential as connector given its cross cutting nature.

Each panellist will be given a possibility for a short opening remark, after which an interactive discussion amongst the panellists will take place, led by the moderator.



Photos: Thomas Henrikson

MONDAY • 12:45-13:45

A NEW MODEL OF PUBLIC AND CORPORATE ENGAGEMENT IN FLOW RESTORATION

K21

Convenor: **NGS**Co-Convenor: **BEF**

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The National Geographic Society, Participant Media, and Bonneville Environmental Foundation have created a first-of-its-kind water stewardship campaign called Change the Course. Join us to explore how this campaign is restoring flows to depleted rivers by engaging the public, corporations and conservation groups.

12:45 Welcome and Opening Video.

▶ Mr. Alex Moen, NGS

12:55 A New Model of Flow Restoration: How Change the Course Works.

▶ Ms. Sandra Postel, NGS

13:10 Engaging the Public and Corporations: Building a Movement.

▶ Mr. Todd Reeve, BEF

13:25 The Value of Change the Course to One Corporate Sponsor.

▶ Mr. Joe Rozza, The Coca-Cola Company

13:30 Scaling the Model: Some Ideas and Reflections.

▶ Ms. Sandra Postel, NGS

13:35 Q&A.

13:45 Close of Side Event.



A PARTICIPATORY APPROACH TO WATER MANAGEMENT: A CASE FROM THE ARAB REGION

K11

Convenor: **IUCN**Co-Convenors: **CEDARE, PHG and UAE**

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The event shares experiences of using participatory approaches to show how water and energy management increases local community resilience in the Arab region. It will also discuss the Regional Water Network (RKNOW) that aims to influence the policy & decision making processes as a means to enhance good water governance.

12:45 Introducing Participatory Approaches within Regional Initiatives and Toolkits.

▶ Dr. Ayman Rabi, PHG

13:00 The Social, Ecological & Agricultural Resilience in the Face of Climate Change (SEARCH), Showing of a Documentary.

▶ Ms. Lara Nassar, IUCN

13:10 The Regional Knowledge Network on Water (R-KNOW): The Next Step Forward.

▶ Dr. Lahcen Taiqui, UAE

▶ Dr. Amir Abdel Mageed, CEDARE

13:20 Panel Discussion.

▶ Mr. Mufleh Alaween, IUCN

▶ Dr. Ayman Rabi, PHG

13:45 Close of Side Event.



INNOVATION AT THE WATER/FOOD NEXUS: SECURING WATER FOR FOOD AWARDEES

K22/
K23Convenors: **BuZa, Sida and USAID**

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Securing Water for Food – a Grand Challenge for Development is a \$32m program funded by the US, Sweden, and the Netherlands to identify and accelerate transformative technologies and approaches at the water/food nexus. Come meet the innovators, share insights, and celebrate innovations in the fight against water scarcity.

12:45 Welcome and Announcement of Securing Water for Food Round One Winners.

▶ Mr. Christian Holmes, USAID

12:55 Innovator Presentations, Water Efficiency and Reuse Targeted at the Food Value Chain.

13:15 Innovator Presentations, Water Capture and Storage.

13:30 Innovator Presentations, Salinity and Saltwater Intrusion.

13:40 Closing Remarks.

13:45 Close of Side Event.



Photos: Leif Kuhlén

WATER AND ENERGY NEXUS: SMART INVESTMENTS TO HELP REALISE HUMAN RIGHTS

K24

Convenor: **WaterLex**

Co-Convenor: **UNEP**

The purpose of this side event is to bring together leading experts to discuss an important measure in the effort to realise the human

rights to adequate sanitation and a safe and healthy environment: wastewater reuse for energy production.

12:45 Welcome and Opening Remarks.

► Mr. Jean-Benoit Charrin, WaterLex

Water and Energy

12:50 How Policy and Law Can Challenge the Human Right to Water.

► Ms. Nathalie Seguin, Red de Acción por el Agua, México

13:00 Enabling Legal Frameworks that Promote the Reuse of Wastewater for Energy Production.

► Prof. Dirk Hänschel, University of Aberdeen, UK

13:10 Practitioner Experience: Lessons Learned from a Human Rights Based Approach to Energy Production

► Mr. Nicola Morganti, ACRA-CSS

13:15 Innovative Financing Mechanisms for Wastewater Reuse for Energy Production Projects.

► Mr. Frederick Royan, Frost & Sullivan and Ms. Valerie Issumo, Prana Sustainable Water

13:25 Policy Components, the Global Wastewater Initiative, and UNEP Perspectives on Wastewater Reuse for Energy Production.

► Dr. Birguy Lamizana, UNEP

13:35 Q&A.

13:45 Close of Side Event.



WATER LEGISLATION REFORMS: SECURING ENVIRONMENTAL CONCERNS AND RENEWABLE ENERGY

K16/
K17

Convenor: **SWH at SIWI**

Co-Convenors: **SIWI, SwAM, WWF and Ministry of the Environment, Sweden**

Hydropower stands for a large part of Swedish energy production and is one of the most important energy sources. The side event will discuss possible implications of water legislation reforms, while

highlighting opportunities for meeting environmental concerns through case studies from Norway and Australia, having gone through similar processes.

12:45 Welcome and Opening Remarks.

► Mr. Johan Kuylensstierna, SEI

12:50 Swedish Ministry Inquiry on Water Activities.

► Mr. Stefan Berggren, Ministry of the Environment, Sweden

13:00 Norwegian Legislation and Development of a More Ecological Sustainable Hydropower.

► Ms. Marit Carlsen, NVE

13:15 How to Safeguard the Environment without Compromising Hydropower Production in Norway.

► Ms Pernille Lund Hoel, WWF

13:30 Legislation to Secure Environmental Health in Australia's Murray-Darling Basin.

► Mr. Russell James, MDBA, Australia

13:45 Close of Side Event.

NOTES

MONDAY • 14:00-17:30

**MINISTERIAL PANEL: FRAMING THE
WATER-ENERGY NEXUS WITHIN THE
POST-2015 DEVELOPMENT AGENDA**

K21

 Convenors: **IIASA, SE4All and SIWI**

In 2015, the UN General Assembly will decide on universal Sustainable Development Goals. This provides a critical opportunity to steer towards concrete and forward-looking action to implement necessary means to eliminate poverty, to sustain ecosystems and to achieve welfare and dignity for all. Access to sustainable energy and to clean and safe water is the fundament to ensure a sustainable future.

2014 World Water Week in Stockholm takes place very timely to discuss the Post-2015 development agenda; two weeks ahead of the 69th Session of the UN General Assembly and a month after the release of the report with recommendations on Sustainable Development Goals by the UN Open Working Group on SDGs.

This High Level Ministerial Panel will address the interlinkages between energy and water and their crucial role in the Post-2015 Development Agenda, providing a unique opportunity to address the issues at stake in an informal setting.

Moderator: Mr. Simon Maxwell, Climate and Development Knowledge Network

14:00 Welcome and Opening Remarks.

► Dr. Kandeh Yumkella, SE4All

14:10 Panel Discussion.

► Dr. Kandeh Yumkella, SE4All

► Ms. Lena Ek, Minister for the Environment, Sweden

► Mr. Ney Maranhão, Secretary for Water Resources and Urban Environment, Ministry of the Environment Brazil

► Dr. Ass Prof. Bùi Cách Tuyen, Vice Minister of Ministry of Natural Resources and Environment, Vietnam

► Ms. Nomvula Mokonyane, Minister of Water and Sanitation, South Africa

► Ms. Judi W. Wakhangu, Cabinet Secretary for Environment, Water and Natural Resources, Kenya (tbc)

15:20 Ministerial Panel Closing Remarks.

► Mr. Torgny Holmgren, SIWI

15:30 Coffee Break.

**FRAMING THE WATER-ENERGY NEXUS WITHIN THE
POST-2015 DEVELOPMENT AGENDA**

Sustainable development is not possible without sustainable energy. And energy cuts across sustainable development issues. Achieving the three objectives of Sustainable Energy for ALL makes many development goals possible. Ensuring universal access helps improve health and food security, empowers women, and creates employment and economic growth. Doubling the share of renewable energy will help populations access affordable energy even where the grid does not exist. And doubling the rate of improvements in energy efficiency will reduce the energy costs and ensure more reliable electricity systems. In all of these, the energy and water nexus is critical and needs to be understood.

16:00 FAO on Links to Energy, Water and Food Security. World Bank Group on Global Tracking Framework and Chapter on Nexus in Next Report. WHO on Links to Energy, Water and Health. IIASA on Research being Done on Energy Water and Ecosystem Management. UNEP on Energy Water and Finance.

17:30 Close of Seminar.

IRRIGATION SUBSIDIES: HOW TO TURN FROM THE OVERUSE OF WATER AND ENERGY TO SUSTAINABILITY?

T5

Convenors: **BGR and IISD**

Co-Convenor: **KfW**

The energy price is a strong driver for groundwater abstraction. Several countries subsidise diesel or electricity for the agricultural sector to secure farmer's income for national food sovereignty. These incentives lead to an expansion of the area on which water intensive crops are cultivated with water inefficient technologies that finally result in the depletion of groundwater and energy resources. Such depletion has also vast implications for the energy sector. Electricity companies and State Electricity Boards are not able to cover their costs therefore they cannot invest in new power plants or better infrastructure. A cash-starved electricity

system will favour options with low up-front costs. Thus renewable electricity can be held back, further exposing countries and consumers to the impacts of high and volatile fossil fuel prices.

But agricultural output remains fundamental to well-being and to economic output. To exit that dilemma, an innovative energy subsidy reform is required that does not hit the poorest the hardest and brings them out of business. However, such a reform has to integrate the nexus perspective, which has the potential to improve the economy, conserve natural resources, and increase food security.

14:00 Welcome and Opening Remarks.

► Mr. Franz-Birger Marré, BMZ

Moderator: Ms. Franca Schwarz, BGR

14:10 Global Subsidy Initiative; Problem Posed by Energy Subsidies in General and those to Irrigation in Particular, the Difficulties of Reform.

► Mr. Tom Moerenhout, IISD

14:30 Effects of Fuel Subsidies on Water Consumption.

► Mr. Saleh Al Dubby, NWRA

► Mr. Henning Baur, KfW

14:45 India's Groundwater-Energy Nexus: Current State and Future Prospects.

► Mr. Tushan Shar, IWMI

15:00 Water Pricing in Spain.

► Mr. Alberto Garrido, UPM, Spain

15:30 Coffe Break.

16:00 Panel Discussion.

► Mrs. Dimple Roy, IISD

► Mr. Saleh Al Dubby, NWRA

► Mr. Henning Baur, KfW

► Mr. Tushan Shar, IWMI

► Mr. Alberto Garrido, UPM, Spain

17:15 Closing Message.

► Ms. Dimple Roy, IISD

► Ms. Franca Schwarz, BGR

17:30 Close of Seminar.

NOTES

MONDAY • 14:00-17:30

MANAGING WATER VARIABILITY AND
COMPETING DEMANDS IN COMPLEX
RIVER BASINS

K24

Convenors: **ASI, MDBA and SIWI**

Sustainable use of water resources is a global challenge manifested at regional, national and local levels. The interplay between growing demands from multiple users, information about resource availability, and governance all pose challenges for water managers.

This seminar provides an opportunity to compare approaches to managing these challenges based on experience in a number of complex river basins. Issues to be highlighted include approaches to cross boundary planning and governance, setting limits on use, and mechanisms such as markets to manage competing demands between different sectors.

Case studies have been selected to showcase multiple water resources and geopolitical situations. The Murray–Darling Basin Authority will provide an insight into how Australia has tackled these challenges against a background of water scarcity. The nexus between water and energy security and how this has influenced water management in the Rokel-Seli, Sierra Leone will be explored while the Mekong River Commission will consider the challenges involved in managing a transboundary river basin.

The seminar will conclude with a panel discussion to draw out additional perspectives and form conclusions about the ‘essential ingredients’ for sustainable water management.

14:00 Welcome and Opening Remarks.

► Dr. Mats Eriksson, SIWI

14:03 Introduction to the Theme.

► Mr. Martin Walshe, DFID

14:10 Presentation from Sierra Leone.

► ASI

14:35 From Overuse to Sustainability: Case Study on the Murray-Darling Basin.

► Mr. Russell James, MDBA

15:00 Presentation on Ganges.

► Mr. Mishra, National Mission Clean Ganga

15:25 Coffee Break.

15:45 Presentation from Zambezi.

► ASI

16:10 Presentation on Mekong.

► Mekong River Commission

16:35 Panel Discussion: Experiences and Recommendations.

Moderator: Mr. Martin Walshe, DFID

17:20 Summary.

► Mr. Martin Walshe, DFID

17:30 Close of Seminar.

MENA NEXUS SEMINAR: REGIONAL COOPERATION FOR SHARING SOLUTIONS

K11

Convenors: **GIZ, GWOPA, SEI and SIWI**

Co-Convenors: **UN-ESCWA and TAMU**

This seminar explores a nexus approach to sustain water, food and energy security for the Arab States under the influence of climate change. Different from previous integrated approaches, the nexus approach starts from a balanced cross-sectoral perspective considering the biophysical, economic and institutional dimensions of natural resource management, analysing the 'flow' of these resources through different sectors, and detects entry points for reducing inefficiencies and exploiting synergies between sectors. As such the nexus approach can inform cross-sectoral policy and decision making.

In the Arab States, such a nexus approach is particularly relevant due to an already severe scarcity of arable land and

water, exacerbated by population growth, environmental degradation, and the impacts of climate change. However, these countries have an abundant renewable energy potential, in particular with regard to solar power. Energy demand in the region is rapidly increasing, driven by the rising water demand of households, industry and agriculture which is met by more desalinization and pumping deeper groundwater.

This seminar will address the role of renewable energies within the water-food-energy nexus and how they can contribute to easing the resource squeeze. It will present and discuss the new nexus initiative for the Arab States and its communication platform.

Moderators: Mr. Holger Hoff, SEI and Mr. Rabi Mohtar, TAMU

14:00 Welcome and Opening Remarks.

- ▶ Ms. Alice Nassar Jaraiseh, SIWI
- ▶ Ms. Tanja Rödiger-Vorwerk, BMZ

14:15 *Nexus Solutions*

Solar Farming and Energy Smart Water Systems.

- ▶ Mr. Gerhard Lichtenthaeler, GIZ
- ▶ Mr. Bassam Hayek, GIZ
- ▶ Mr. Christopher Napoli, KAPSARC
- ▶ Water-Smart Renewable Energy.
- ▶ IRENA (tbc)

14:45 *Institutional Integration*

- ▶ Mr. Samir Bensaid, Office National de l'Electricite et de l'Eau Potable Maroc
- ▶ Mr. Fadi Comair, Ministry of Energy and Water, Lebanon
- ▶ Ms. Roula Majdalani, UN-ESCWA
- ▶ Mr. Mohammad Al-Madfaei, Abu Dhabi Environment Agency

15:30 Coffee Break – Poster Presentations.

Data, Tools and Resource Platforms

16:00 Abu Dhabi Environmental Data Initiative.

- ▶ Mr. William Dougherty, Abu Dhabi Environment Agency
- ▶ RICCAR Regional Knowledge Hub.
- ▶ Ms. Carol Chouchani Cherfane, UN-ESCWA
- ▶ MENA Nexus Resource Platform.
- ▶ Mr. Holger Hoff, SEI

16:30 Panel Discussion: Regional Cooperation.

Moderator: Mr. Holger Hoff, SEI

- ▶ Ms. Shahira Wahbi, League of Arab States
- ▶ Mr. Roula Majdalani, UN-ESCWA
- ▶ Mr. Faraj El-Awar, GWOPA
- ▶ Mr. Jean-Marc Faurès, FAO
- ▶ Mr. Rabi Mohtar, TAMU

17:30 Close of Seminar

MONDAY • 14:00-17:30**NEW APPROACHES TO WASTEWATER AND WATERRESOURCE
MANAGEMENT MONITORING IN THE POST-2015 ERA****K2**Convenors: **UN-Water, UNEP, UN-Habitat and WHO**Co-Convenor: **SDC**

Options for wastewater and water quality (WWQM) and water resource management (WRM) monitoring in the Post-2015 period will be presented for discussion and identification of most feasible approaches for a cost effective global monitoring mechanism to track progress and direct investment towards meeting global targets.

As Post-2015 negotiations evolve it appears increasingly likely that targets on WWQM and WRM will be included. However, global data and monitoring of WWQM and WRM has been very sparse to date and no global monitoring mechanism currently exists.

In preparation for a target and baseline assessment early in the Post-2015 period technical options need to be considered for

data acquisition, aggregation, quality assurance and reporting. Options will consider the relative merits of regulator and service provider data, regional initiatives, derived estimates and remote sensing or combinations of these source from the perspective of data quality and the extent to which data can stimulate and support country level action. Harmonisation of the approach with mechanisms for WaSH will be critical.

The event will include technical presentations of the options, panels discussion including sector experts and representatives from member states and open discussion and feedback from the audience.

14:00 Water as a Goal: Going beyond the MDGs.

► Dr. Maria Neira, WHO

Moderator: Mr. Joakim Harlin, UNDP

14:10 Overview the Expanded Monitoring Initiative.

► Mr. Graham Alabaster, UN-HABITAT

14:20 A Monitoring Framework: An Overview of Monitoring Mechanism Options Investigated by the Task Teams.

15:30 Coffee Break.

16:00 Round-Table Discussions on the Feasibility of the Monitoring Options Presented.

16:40 Panel Discussion.

Moderator: Mr. Robert Bos, Independent Adviser

► Country Representative – Africa

► Country Representative – Latin America

► Country Representative – Europe

► Country Representative – Asia

► Water Industry Representative

► Development Partner Representative

► Water and Waste Technical Expert

► Civil Society Representative

17:25 Closing Remarks.

► Ms. Jacqueline Alde, UNEP

17:30 Close of Seminar.

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**K22/
K23**

Co-Convenors: **SABMiller, NGS and WWF**

This seminar will explore the balance of water, energy, food production and ecosystem conservation at the basin scale, and highlight innovative programs that hold promise for delivering optimised outcomes.

The audience will hear case studies from organisations that are implementing programs on the ground to optimise for energy, water and food, with the discussion focused on the opportunities and challenges of this work, and how we might continue to innovate through technology, policy and economic incentives to achieve the greatest delivery of energy, water and food within a local basin context.

► Mr. Brian Richter, TNC

► Dr. Nathaniel Matthews, WLE

14:25 Balancing Demand and Supply of Ground Water for Agriculture in Rural India.

► Mr. David Grant, SABMiller

14:45 Working to Improve the Sustainability of Hydropower, Agriculture and Water Supply in the Tana River Basin through a Water Fund Framework.

► Mr. Joshua Were, KenGen

15:05 Managing for Hydropower and Fisheries in the Mekong River Basin

► Mr. Stuart Orr, WWF

15:25 Coffee Break.

Focus on the Americas

► Dr. Xavier Leflaive, OECD

16:15 Piloting an Innovative, Multi-stakeholder, Flow Restoration Initiative in the Colorado River Basin.

► Ms. Sandra Postel, NGS

16:35 Incentivising Efficient Irrigation for Sustainable Water Use in Mexico and Idaho.

► Ms. Kari Vigerstøl, TNC

16:55 Panel Discussion.

17:25 Wrap-Up.

17:30 Close of Seminar.

NOTES

MONDAY • 14:00-17:30

PRODUCING ELECTRICITY WITH LESS WATER – NEW PERSPECTIVES FOR RENEWABLES IN A WATER-CONSTRAINED WORLD

K16/
K17Convenor: **IASS**Co-Convenors: **IWMI, BMUB, IRENA, WB and SUEN**

The Institute for Advanced Sustainability Studies (IASS) in Potsdam (Germany) holds a three hour seminar titled “Producing electricity with less water – New perspectives for renewables in a water-constrained world” at 2014 World Water Week. The seminar is organised in cooperation with the German Federal Ministry for the Environment, IRENA, The World Bank, the International Water Management Institute and the Turkish Water Institute.

The seminar intends to elaborate on the use of water in the electricity sector in the light of the ongoing energy system transformations. We are especially interested in the increasingly important role of wind energy and solar PV, two technologies with close to no water consumption for plant operation and significantly lower water consumption levels on a life-cycle basis. In this seminar, we will discuss different scenarios and case studies for power system transformations, focusing on the impact on water use. There are multiple parameters that policy makers take into account when deciding about the power generation mix, including levelised costs of energy, security of supply, system integration, CO₂ emissions, etc. In addition, policy makers should develop more awareness of the water intensity of different power generation technologies in an increasingly water-constrained world.

14:00 Welcome and Opening Remarks.

► Prof. Klaus Töpfer, IASS

14:20 Water Intensity of Different Power Generation Technologies – Findings from the “Thirsty Energy” Working Paper.

► Dr. Diego Rodriguez, WB

14:50 The Global Status of Renewable Energies – Opportunities for the Water Agenda.

► Dr. Dominik Schäuble, IASS

15:20 Energy Scenarios and the Role of Renewables in Water-Scarce Regions.

► IRENA

15:50 Coffee Break.

16:20 Panel Discussion.

► Dr. Peter McCornick, WMI

► Dr. Diego Rodriguez, WB

► Mr. Thomas Stratenwerth, BMUB (tbc)

► Prof. Klaus Töpfer, IASS

► IRENA

► SUEN

17:30 Close of Seminar.

PUBLIC PRIVATE COOPERATION: THE KEY FOR WATER AND ENERGY MANAGEMENT

T2

Convenors: **2030 WRG, 3GF Secretariat, DHI and SIWI**

Co-Convenors: **Eskom and Jain Irrigation**

In most countries the private sector is the largest consumer of both water and energy. Their support to energy and water efficiency initiatives is essential if policies are to work effectively and get implemented.

This seminar will give examples on how public and private actors can work together to address the water-energy nexus challenges and explore the opportunities that exist, and also provide examples on what the potential for such partnerships are.

The seminar will have one part focusing on the challenges and opportunities from a water resource and energy management perspective, for river basins, countries or regions. Sometimes

there is strong competition between different uses of water, where the water and energy challenges is at the core, but sometimes there might also be opportunities to use both water and energy more efficiently within a river basin or within the electricity grid. How can we save both water and energy at the same time?

Another part of the seminar will focus on the opportunities to use water and energy more efficiently within the operation of different facilities/utilities, in agriculture, industry or municipalities. Many successful examples exist from around the world where both water and energy have been saved, also with a positive net economic outcome. What are the obstacles and barriers that need to be overcome to put them to scale?

Moderator: Dr. Torkil Jonch Clausen, DHI

14:00 Welcome and Opening Remarks.

► Mr. Anders Berntell, 2030 WRG

Providing the Enabling Environment for PPPs

14:10 The 3GF Approach to PPPs on Water and Energy.

► Ms. Lisbeth Jespersen, 3GF
Sustainable Hydro Development through a Public-Private Partnership (PPP):
"Presentation of an Example in Lao PDR".

► EDF (tbc)
Optimising the Water-Energy Nexus,
Perspectives from the Water Regulator
OfWat (UK).

► Mr. Ronan Palmer, Ofwat
Optimising the Water-Energy Nexus,
Perspectives from an Energy Company,
Alstom.

► Mr. Lawrence E. Jones, Alstom Grid Inc.
Water and Energy Challenges in Tanzania,
Public Private Dialogues as a Tool to
Address them.

► Mr. Anders Berntell, 2030 WRG
Q&A.

15:30 Coffee Break.

The Opportunities within the Operation of Facilities/Utilities

16:00 How to Save Water and Energy in the Municipal Water Supply.

► eThekweni Water & Sanitation (tbc)
Sustainable Hydro Development through a Public-Private Partnership (PPP):
"Presentation of an Example in Lao PDR".

► EDF (tbc)
Jain Irrigation Innovative Model for Water and Energy Solutions
or Small Farmers.

► Mr. Dilip Kulkarni, Jain Irrigation
Solar Powered Irrigation Opportunities,
South Africa, Morocco and Yemen.

► Mr. Richard Colback, IFC
Q&A.

17:30 Close of Seminar.

NOTES

MONDAY • 14:00-17:30

WATER AND ENERGY: GETTING THE PRIORITIES
RIGHT FOR SMALLHOLDER FARMERS

T6

Convenors: **CARE and IUCN**Co-Convenors: **CRS and IIED**

Smallholder farmers have a major stake in the water-energy-food nexus and in policies and strategies used to drive coherence and sustainability across these sectors. They make up the majority of farmers in most developing countries and have the most to lose from ineffective policies. Yet, the voices of smallholders are rare in current dialogues on water and energy or even water for food.

This seminar will explore water management and energy development that will better meet the needs of smallholder farmers. It will assess how applications of green water management change options for rural water, associated energy development and watershed management. It will compare how the energy consequences of alternate irrigation technologies – small-scale irrigation with diesel or treadle pumps for example versus large-scale schemes with electric pumps or gravity-fed irrigation – affect the trade-offs faced by rural communities, as well as how value chains involving the private sector can integrate water management and energy strategies.

The seminar will use data and lessons from a variety of contexts, with farmers' experiences debated alongside the views of policymakers as a basis for assessing what policies, strategies and partnerships will be effective in giving priority to the needs of smallholder farmers.

14:00 Introduction and Opening Remarks.

► Ms. Kemi Seesing, Global Water Initiative

14:05 Smallholder Farmers in the Nexus: Options and Opportunities to Meet Priorities.

► Dr. Alan Nicol, CARE

14:20 Investment Priorities for Water and Energy in Smallholder Agriculture.

► Dr. Rudolph Cleveringa, GWP

14:35 Market Place: Key Water and Energy Issues for Smallholder Farmers Facilitated Round Table Discussions.

15:15 Prioritising Needs, Risks and Trade-Offs.

15:30 Coffee Break.

16:00 Report Back: Consolidated List of Water and Energy Issues Faced by Smallholder Farmers.

16:15 How Do Farmers Manage These Issues? A Conversation with Farmer Representatives from Central America, West Africa and East Africa.

16:45 Policy for the Nexus and Smallholders – What Policy Reforms are Needed?

► Ms. Isabella Rae, Gorta-Self Help Africa

17:00 Moderated Panel: What Would Policy Look Like to Solve These Issues?

17:25 Summary of Key Messages.

17:30 Close of Seminar.

MONDAY • 17:45-18:45

GENDER DISAGGREGATED INDICATORS FOR WATER MONITORING ASSESSMENT AND REPORTING

K24

Convenor: **WWAP**

Co-Convenors: **AMCOW, SIWI, WfW and WRC**

Gender-disaggregated data is always a considerable gap in water reports and a need for the collection and production of these type of information has been addressed and stressed in several occasions by UNESCO. This side-event will present the preliminary

results of the WWAP Working Group on Gender-disaggregated Indicators and the direct view of AMCOW, Women for Water Partnership, SIWI and South Africa Water Research Commission regarding the relevance of this topic in their gender strategy.

17:45 Opening.

- ▶ Ms. Francesca Greco, WWAP

17:50 Presentations.

- ▶ Dr. Joni Seager, WWAP
- ▶ Ms. Lyliose Umupfasoni, AMCOW
- ▶ Ms. Eiman Karar, WRC

- ▶ Mr. Anton Earle, SIWI

- ▶ Ms. Mariet Verhoef-Cohen, Women for Water Partnership

18:25 Open Discussion.

Chair: Ms. Rosemary Rop, WB

18:45 Close of Side Event.



INNOVATIONS IN SUSTAINABILITY FOR WATER AND SANITATION SERVICES

T2

Convenor: **SWA**

Co-Convenors: **DGIS, DFID, IRC, RWSN, UNICEF, USAID, WSP, WSSCC, UNC and WaterAid**

Six months after the third High level Meeting (HLM) and a year before the world is poised to establish sustainable development goals, this side event, hosted by partners of Sanitation and Water for All (including DGIS, DFID, IRC, RWSN, UNICEF,

University of North Carolina, USAID, WaterAid, WSP/World Bank and WSSCC) seeks to highlight key outcomes of the third SWA High Level Meeting and commitments in regard to service sustainability.

17:45 Welcome and Opening Remarks.

- ▶ Prof. Jamie Bartram, UNC
- ▶ High-Level Dignitary from the Government of Sweden
- ▶ Mr. Junaid Ahmad, WB (tbc)

HLM Outcomes and Follow-Up Activities

18:00 Main Messages and Follow-Up Actions from the 3rd HLM with a Focus on Sustainability.

- ▶ Mr. Darren Saywell, SWA
- Plenary Discussion on How Participants at the HLM Addressed Sustainability.

Marketplace of Innovations for WASH Service Sustainability

18:15 Framework of Service Delivery Indicators for Assessing and Monitoring Rural and Small Town Water Supply Services in Ghana.

- ▶ Mr. Vida Duti, IRC
 - ▶ Mr. Ben Kubabom, CWSA
 - ▶ Patrick Moriarty, IRC
- Sustainability Compacts.
- ▶ Mr. Dick van Ginhoven, DGIS
- Sustainability Index Tool (SIT).
- ▶ Ms. Katy Beggs, USAID
 - ▶ Ms. Heather Skilling, USAID
- WASH-BATs Analysing Sustainability.
- ▶ Ms. Evariste Kouassi-Komlan, UNICEF (tbc)
- Politics of Professionalism.

- ▶ Nigeria (tbc)

- ▶ Ms. Stef Smits, RWSN

CLTS Approaches for Sustainability at Scale.

- ▶ Ms. Rija Fanomez, Madagascar (tbc)

- ▶ Ms. Clara Rudholm, WSSCC

WASH Results Programme and other Sustainability Approaches.

- ▶ Ms. Antoinette Kome, SNV

- ▶ Mr. Leonard Tedd, DFID

"Mapper Lite" and "Post Construction' Failure Analysis Tool": Sustainable Tools for Rural Water Supply.

- ▶ Uganda/Mali (tbc)

- ▶ Mr. Vincent Casey, Water Aid

GLAAS Sustainability Insights

- ▶ Ms. Fiona Gore, WHO

Sustainability Tool (tbc)

- ▶ Civil society organisation (tbc)

Plenary Discussion.

Moderator: Mr. Piers Cross, Consultant

18:35 Commentators.

- ▶ Dr. Sanjay Wijesekera, UNICEF

- ▶ Mr. Dominick de Waal, WSP

- ▶ Representative, Civil Society (tbc)

18:45 Close of Side Event.

MONDAY • 17:45-18:45

NATURE-BASED SOLUTIONS FOR WATER AND ENERGY

K16/
K17Convenor: **Forest Trends**Co-Convenor: **GSF**

A critical evaluation of current cases and the potential for nature-based solutions to address the water-energy nexus; presentations on the current state of practice; interdisciplinary

discussion of barriers and enabling conditions for scaling up nature-based solutions to impact the water-energy nexus.

17:45 Welcome and Opening Remarks.

Natural Infrastructure for Water and Energy – An Overview of Emerging Innovations.

► Dr. Jan Cassin, Forest Trends

17:55 Where Are We in 2014? Results of the 2014 Global Survey on Investments In Watershed Services.

► Ms. Genevieve Bennett, Forest Trends

18:10 Panel and Audience Discussion.

Moderator: Mr. Michael Jenkins, Forest Trends

► Mr. Brendan Smith, GSF

► Mr. Gary Lawrence, AECOM

► Mr. Christophe Bosch, SDC

► Mr. Ed Pinero, Veolia

► Mr. Todd Gartner, WRI

18:45 Close of Side Event with Reception with Drinks and Snacks.



THE GLOBAL DIALOGUE ON WATER SECURITY AND SUSTAINABLE GROWTH

K2

Convenor: **GWP**

This high-level session will share early results and discuss critical issues emerging from The Global Dialogue on Water Security and Sustainable Growth, a joint GWP-OECD initiative to promote

and accelerate a transition to water security. For more information on The Global Dialogue please visit www.gwp.org

17:45 Welcome and Opening Remarks.

► Ms. H.E. President Ellen Johnson Sirleaf, Liberia

17:50 Presentation on the Economics of Water Security.

► Ms. Claudia Sadoff, WB

► Prof. David Grey, Oxford University, UK

► Prof. Jim Hall, Oxford University, UK

18:05 Panel Discussion.

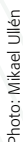
18:25 Q&A.

18:40 Closing Remarks.

18:45 Close of Side Event.



Photo: Yarnick Jooris, UNESCO



**K22/
K23**

Co-Convenors: **Earthwatch, WaterAid and WWF**

17:45 Welcome and Introduction from Chair.

- ▶ Ms. Cecilia Chatterjee-Martinsen, WaterAid

17:50 Introduction to the HSBC Water Programme.

- ▶ Ms. Naina Lal Kidwai, HSBC

18:00 Panel Discussion – HSBC Water Programme Partners.

- ▶ Prof. Steven Loiselle, Earthwatch
- ▶ Naina Lal Kidwai, HSBC
- ▶ Neeraj Jain, WaterAid
- ▶ Sejal Worah, WWF

18:30 Q&A.

18:45 Close of Side Event.

**Exhibition
Hall**

On Monday, the poster session will feature the posters of the following workshops:

- You will also have the opportunity to view the posters of this year's Stockholm Junior Water Prize finalists.

[illegible]

TUESDAY

September 2

FULL DAY

Workshops	Convenors	Co-Convenors	Room	Page
Entwined Predicaments: Limits Facing Water and Energy	SIWI	IRENA, SE4All and WB	K16/ K17	52
Sustainable Hydropower – The Search for Common Ground	SIWI	EDF, IHA and WWF	K11	54
Water, Energy, Food and Ecosystems Security	SIWI	BMUB, BMZ, DWFI and IUCN	K24	56

MORNING • 09:00–12:30

Seminars	Convenors	Co-Convenors	Room	Page
Africa Focus: Growing the Link between Water and Energy for Development	AMCOW and AUC	AWF and GWP	K2	58
Beyond Asset Management: Sector Analysis and Partnerships for Sustainable Service Delivery in WASH	UNICEF and WGF	DFID, DGIS and WSP	T6	59
Gender and Water: An Untapped Connection?	WRC	AMCOW, GWP and UNESCO-IHP	T5	60
Improving the Impacts and Effectiveness of Corporate Water Stewardship Initiatives	AWS, GIZ, UNGC CEO Water Mandate, WIN and WBCSD	–	K21	61
LAC Focus: The Water-Energy Nexus in Latin America: Understanding the Upstream and Downstream Systems	CAF, FEMSA Foundation and TNC	The Coca-Cola Company, EPM, ITAIPU, ITESM, Sabesp, WB and WWF	T3	62
Sanitation Business Models for Safe Resource Recovery and Reuse (RRR)	GIZ, IWMI, SDC and WHO	BORDA, BPD, cewas, Eawag, ETH Zürich, GTO, Sanergy, Sandec, SEI, SuSanA, Swiss TPH, Water for People and WBCSD	T2	63
Water and Energy in Global Climate Policy: How to Increase Coherence and Ensure Effectiveness?	SIWI	AFD, AGWA, CI, EDF, FWP, GDF SUEZ, GWP, IenM, MAE, OECD and UNECE	T4	64
Water and Shale Energy Development: Risks and Future Implications for Society	WRI	BUZa, Ceres, GE and SIWI	K22/ K23	65

LUNCH • 12:45–13:45

Side Events	Convenors	Co-Convenors	Room	Page
A Triple Win: Creating Financial Value for Water through Nexus Application in the Textile Industry	SIWI and STWI	–	K16/ K17	
Africa Focus: Waste for Irrigation Energy Production	AMCOW and AUC	AWF and GWP	K2	
Are You Still Pouring Your Post-2015 Water Investments down the Drain?	USAID and WaterAid	Plan International	K22/ K23	
LAC Focus: Private Sector Innovation in Water Stewardship: The case of Coca-Cola in Latin America	The Coca-Cola Company, FEMSA Foundation and TNC	–	T3	
Solar Power for Community Water Supply: Do the Economics Work?	Conrad N. Hilton Foundation and Safe Water Network	–	K24	
What Do We Know about WASH and Nutrition Linkages to Reduce Child Mortality?	UNICEF, USAID and WHO	–	T6	

Seminars	Convenors	Co-Convenors	Room	Page
Addressing Equity in the Water, Sanitation and Hygiene Sector	SHARE	IIED, UNICEF and WaterAid	T6	
Africa Focus: Building Climate Resilience for Water and Energy Infrastructure	AMCOW	AWF, GWP and ICA	K2	
LAC Focus: Energy and Water Efficiency from the National to the Community Level in the Americas	FEMSA Foundation, IADB, TNC and WWF		T3	
Learning from #Fails in Water and Energy	SIWI	–	T5	
Lessons and Resources: The Energy-Water Nexus in the US	GWC, NRDC, US Department of State and USWP	GETF and PISCES Foundation	K22/ K23	
STOCKHOLM INDUSTRY WATER AWARD CEREMONY and Founders Business Seminar: Sanitation – A Liquid Asset Stream?	SIWI	WBCSD	K21	
The Power of Flows: Negotiating Sustainable Hydropower through Environmental Flows	AGWA, CI, eFlowNet, IUCN, Itaipu Binacional, KAU, RTI, SEI, SIWI, SLU, SwAM, UNESCO-IHE, UNIOESTE, UMU, TNC and WWF	–	T2	
The Water-Energy Nexus in the Context of Green Growth	K-water, WWFKNK and WWC	ADB, IUCN, OECD and WB	T4	

Side Events	Convenors	Co-Convenors	Room	Page
Africa Focus: High Level Ministerial Panel	AMCOW and AUC	–	K2	
How did Asian Tigers Improve their Sanitation Coverage so Quickly?	WaterAid	–	K16/ K17	
LAC Focus: Science and Technology Perspectives for the Energy-Water Nexus in Latin America	CAALCA, FEMSA Foundation and ITESM	Imperial and JRC	T3	
Managing Climate Risk in Corporate Value Chains: Columbia Water Center and PepsiCo	PepsiCo	CWC	T4	
Oil and Water Don't Mix: Panel Debate – Embedding Water Management in Oil and Gas	IPIECA	CI	K21	



SOCIAL EVENT
MINGLE & DANCE AT STOCKHOLMSMÄSSAN
 More information on page 137.



INTERACTIVE WORKSHOP POSTER SESSIONS

Monday, Tuesday and Wednesday, 17:45-18:45.



FOOD & DRINKS INCLUDED

September 2

FULL DAY • 09:00-17:30

Entwined Predicaments: Limits Facing Water and Energy

**K16/
K17**

Co-Convenors: **IRENA, SE4All and WB**

This workshop will focus on innovative thinking, successful cases, and avoided pitfalls across the water-energy nexus. Areas to be addressed include: water and energy footprints; iconic water and energy technologies with entwined conflicts (hydropower, shale gas, desalination); policy and management bridges between the two sectors; and sustainable ways forward.

POSTERS

► Mr. Tor Haakon Bakken, Norwegian University of Science and Technology, Norway

WORKSHOP OFFICERS

► Dr. Dipak Gyawali, NAST, Nepal

► Dr. David Wiberg, IIASA

► Mr. Wm. Randolph Webb, Accenture

NOTES

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INTERACTIVE WORKSHOP POSTERS

The posters will on display in the exhibition hall throughout Monday.

PROGRAMME

Cross-Sector Perspective on the Predicaments Facing Water and Energy

09:00 Introduction

- Ms. Angela Churie Kallhauge, SEA

09:10 Moderated Panel Discussion.

Moderator: Mr. Johan Kuylenstierna, SEI

- Ms. Julia Bucknall, WB
- Mr. Erik Brandsmaa, SEA
- Dr. Dipak Gyawali, NAST, Nepal
- Mr. Henrik Tegner, Accenture

10:30 Coffee Break

Scientific Perspective: What does Science Say? What is Energy for Water and Water for Energy?

11:00 Introduction, Including Initial Highlights of the Abstracts.

- Mr. Wm. Randolph Webb, Accenture

11:10 The Energy Footprint of Water: Energy Requirements of Freshwater Supply and Disposal.

- Dr. Ashok Chapaign, WFN, The Netherlands

11:30 Water in the Energy Industry: A Scientific Review on how and where Water is used in Energy Production.

- Mr. Alistair Wyness, BP plc

11:50 Discussion.

Moderator: Ms. Angela Churie Kallhauge, SEA

12:25 Conclusions of Morning Sessions.

- Mr. Wm. Randolph Webb, Accenture

12:30 Lunch

14:00 Introduction.

- Mr. Wm. Randolph Webb, Accenture

Examples and Solutions?

14:10 Introduction: Trends in Energy Development and Water Aspects: Examples from the Middle East.

- Dr. Rabia Ferroukhi, IRENA

14:25 Trading Securities? A Comparative Study on Regulating Fracking in Europe (Spain) and USA (Texas)

- Dr. Elena Lopes, ICATALIST, Spain

14:40 Renewable Energy for Rural Economic Development Project Breaks the Water Silos. A Successful Experience from Sri Lanka.

- Mr. Dammika Sirisena, National Development Bank, Sri Lanka

14:55 Solar Energy Secures Safe Drinking Water For School In Uganda.

- Mr. Michael Kuteesa, MWODA, Uganda

15:10 Knowledge Sharing, the Basis of Reciprocal Dialogue & Coherent Practice: The Experience of CAFOD and Newcastle University with Farmers in Lake Paron.

- Ms. Mónica Untiveros Lázaro, Comisión Episcopal de Accion Social, Peru

15:25 Discussion.

Moderator: Dr. David Wiberger, IIASA

15:30 Coffee Break.

Cross-Sector Perspective on Driving Sustainable Management of Water and Energy

16:00 Moderated Panel Discussion.

Moderator: Mr. Jonathan Kaledin, SIWI

- Ms. Julia Bucknall, WB
- Mr. Erik Brandsmaa, SEA
- Dr. Rabia Ferroukhi, IRENA
- Mr. Tomas Haglund, Accenture

17:20 Conclusions and Recommendations.

- Dr. Dipak Gyawali, NAST, Nepal

17:30 Close of Workshop.

FULL DAY • 09:00-17:30

K11

Co-Convenors: **EDF, IHA and WWF**

The workshop will explore appropriateness of prevalent tools and forums for new ways of engagement between water and power managers with both innovators in the market and critics from the socio-environmental arena. Issues include: multi-purpose storage; benefit sharing between/within countries; power versus non-power and socio-environmental concerns; global and local initiatives.

► Ms. Kristin Schumann, EDF, France

NOTES

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The posters will on display in the exhibition hall throughout Monday.

PROGRAMME

09:00 Opening and Overview.

- ▶ Dr. Jerson Kelman, Federal University of Rio de Janeiro.
- ▶ Mr. Cameron Ironside, IHA

What if a Proposed Hydropower Plant is Not Built?

09:05 State of Play in the Hydro Sector.

- ▶ Mr. Ben Braga, WWC

09:25 Moderator Intro.

- ▶ Dr. Robert Bos, IWA

09:30 Panel Debate.

- ▶ Mr. Gabriel Azevedo, Santo Antonio HPP
- ▶ Mr. Alfred Duda, WWF

10:00 Considering Ecosystem Services Loss into the Price of Hydropower in China.

- ▶ Dr. Qinhua Fang, XMY, China

10:15 Blue Gold for whom? Multi-Level Games and Divergent Positions in the Development of Himalayan Hydropower.

- ▶ Ms. Paula Hanasz, Australian National University, Australia

10:30 Coffee Break.

Case Studies

11:00 Water and Energy in Africa: Conflict or Cooperation.

- ▶ Mr. Simon Thuo, Social Impact Institute, Kenya

11:15 Distributing Costs and Benefits through Operations of the Grand Ethiopian Renaissance Dam.

- ▶ Mr. Kevin Wheeler, Water Balance Consulting, USA

11:30 Auditing Concessions for Hydroelectric Plants: An Example of Water Management for Sustainable Hydropower.

- ▶ Ms. Rosa Huertas, Duero Basin Authority, Spain

11:45 Optimal Operation of Multi-Reservoir Hydropower Systems under Climate Change Scenarios.

- ▶ Ms. Banafsheh Zahraie, University of Tehran, Iran

12:00 Panel Discussion.

Moderator: Dr. Robert Bos, IWA

- ▶ Mr. Gabriel Azevedo, Santo Antonio HPP, Brazil
- ▶ Mr. Alfred Duda, WWF

12:25 Conclusions of Morning Sessions.

- ▶ Mr. Xavier Ursat, EDF, France

12:30 Lunch.

Tools and Solutions: Basin vs Project

14:00 Introduction, Including Brief Summary of Morning.

- ▶ Mr. Xavier Ursat, EDF
- ▶ Prof. Monica Porto, University of São Paulo, Brazil

14:05 Global Application of Environmental and Social Safeguards to Hydropower Dams – Who Applies what, and how Effective are they?

- ▶ Mr. Jamie Skinner, IIED

14:25 System-Scale Approaches to Hydropower Planning, Development, and Management.

- ▶ Dr. Jeff Opperman, TNC

14:40 Role Play: Resettlement Role Play/Exercise.

- ▶ Mr. Cameron Ironside, IHA
- ▶ Dr. Jian Hua Meng, WWF

15:10 Poster Interviews.

Moderator: Prof. Monica Porto, University of São Paulo, Brazil

- ▶ Mr. Emmanuel Branche, EDF, France
- ▶ Ms. Helene Ahlborg, Chalmers University of Technology, Sweden
- ▶ Mr. Mohamad Irwan Ama, Sarawak Energy Berhad, Malaysia
- ▶ Ms. Kristin Schumann, EDF, France

15:30 Coffee Break.

Hydropower Sustainability

16:00 Protocol Present 1 IHA “Recent experience in applying the HSAP”.

- ▶ Mr. Rickard Liden, WB

16:15 Protocol Interviews.

- ▶ Mr. David Harrison, TNC

16:40 General Discussion.

17:15 Conclusions from Sessions.

- ▶ Mr. Xavier Ursat, EDF, France
- ▶ Mr. Jacob Petersen-Perlman, Oregon State University, USA

17:20 Conclusions and Recommendations.

17:30 Close of Workshop.

PROGRAMME

New Normal – A View of the 21st Century

09:00 Welcome Remarks.

- Ms. Verena Klinger-Dering, BMUB
- Dr. Roberto Lenton, DWFI, USA
- Dr. Mark Smith, IUCN

09:10 Changing the Drought Management Paradigm: the Role of National Drought Policies.

- Dr. Donald A. Wilhite, School of Natural Resources, University of Nebraska-Lincoln.

09:30 Water, Energy and Food. Nexus Issues in the Gulf Region.

- Dr. Rabi Mohtar, TAMU, USA

09:50 Posters and/or Slide Show Illustrating 'The New Normal'.

10:00 Q&A.

10:30 Coffee Break.

Tackling the Nexus Trade-Offs

11:00 Introduction.

- Prof. Christopher Neale, DWFI
- Dr. Mark Smith, IUCN

11:05 The Mekong Basin: Trade-Offs between Energy, Food and Water.

- Dr. Jamie Pittock, The Australian National University, Australia

11:25 Potential for Off-Grid Community Micro-Hydro Schemes to Deliver for Energy, Water and Food Security: Lessons from 25 years of Practical Experience.

- Dr. Lucy Stevens, Practical Action, UK

11:40 Water Allocation between Agriculture and Energy: Economic vs. Social Values.

- Mr. Mohamed Aheeyar, Hector Kobbekaduwa Agrarian Research and Training Institute, Sri Lanka

11:55 Launch of Report: "Cooperation for Energy, Food and Water Security in Transboundary Basins under Changing Climate" Ho Chi Minh City, April 2-3, 2014.

- Mr. Hans Guttman, MRC, Lao Peoples Democratic Republic

12:10 Moderated Panel Discussion.
Moderators: Prof. Christopher Neale, DWFI and Dr. Mark Smith, IUCN

12:30 Lunch

Land-Use, Energy, Agriculture and Ecosystems

14:00 Introduction.

- Mr. Will Sarni, Deloitte Consulting LLP
- Mr. Thomas Stratenwerth, BMUB

14:05 Agriculture and Ecology – An African Perspective.

- Hon. Judy Wakhungu, Ministry of Water and Natural Resources, Kenya (tbc)

14:25 Impacts of Large-Scale Investments in Agriculture to Water Resources, Ecosystems and Livelihoods, and Development of Policy Options.

- Mr. Eric Hoa, UNEP

14:40 Water-, Carbon- and Land use Footprint of Bioenergy Production in Mexico.

- Ms. Anna Henneke, University of Bonn, Germany

14:55 From Land Reform to Pump Energisation: A Shift in Agricultural Drivers in West Bengal.

- Mr. Mitra Archisman, WLE

15:10 Q&A.

- Mr. Will Sarni, Deloitte Consulting LLP
- Mr. Thomas Stratenwerth, BMUB

15:30 Coffee Break.

Way Forward – Governance

16:00 Introduction.

16:05 Corporate Sector Perspectives and Initiatives.

- Mr. Christian Frutiger, Nestlé

16:25 Corporate Water Stewardship: Achieving a Sustainable Balance.

- Mr. Joe Rozza, The Coca-Cola Company

16:40 Policies and Institutions for Achieving the Virtuous Nexus of Food Security, Energy and Water in Sub-Saharan Africa: The Case of Malawi & Mozambique.

- Dr. Ephraim Nkonya, International Food Policy Research Institute

16:55 Moderated Panel Discussion.

- Moderators: Mr. Thomas Stratenwerth, BMUB and Mr. Will Sarni, Deloitte Consulting LLP

17:20 Wrap-Up and Messages from Workshop.

- Dr. Roberto Lenton, DWFI
- Prof. Jan Lundqvist, SIWI
- Mr. Nick Copeland, Arup, UK

17:30 Close of Workshop.

TUESDAY • 09:00-12:30

BEYOND ASSET MANAGEMENT – SECTOR ANALYSIS AND PARTNERSHIPS FOR SUSTAINABLE SERVICE DELIVERY IN WASH

T6

Convenors: **WGF and UNICEF**

Co-Convenors: **WSP and DGIS**

WASH services are still struggling with major deficits in sustainability in services. There is globally an awareness about the problem and there are many ongoing initiatives to address sustainability but few which are taking a comprehensive approach addressing the service delivery chain from enabling environments to functionality. The WASH-Bottleneck sector analysis tool (WASH-Bat) joins sector partners to identify and address bottlenecks to efficiency and effectiveness in the WASH sector. This tool has been applied in a number of countries and is starting to generate information on how countries identify bottlenecks to sector developments and financing.

The seminar will particularly look at how and if countries are identifying key sustainability indicators that address enabling environments and WASH governance to improve sustainability beyond functionality of services. It will address lessons learnt to date in a selected number of countries from implementing the sector tool and analyse how improved governance can address identified bottlenecks to improve the system and the application of sustainability compacts - a partnership between the governments and sector partners. The seminar will include presentations from countries and a presentation and interactive discussion on new governance tools and concepts for a comprehensive approach.

09:00 Welcome and Opening Remarks.

► Mr. Sanjay Wijesekera, UNICEF

Approaches to Sustainability

09:10 Experiences from Applying Sustainability Tools – Conclusions from the Sustainability Forum in Amsterdam July 2014

► Mr. Patrick Moriarty, IRC

09:25 Using the WASH Bottleneck Analysis to Improve Sustainability: A Review of the Experiences of the First Application in 12 Countries.

► Mr. Evariste Kouassi Komlan, UNICEF

09:40 The Sustainability Compacts: Generating Commitment towards Sustainability.

► Ms. Cecilia Scharp, UNICEF

09:55 Q&A.

Accountability as a Means to Improve Sustainability

10:10 How Can Increased Accountability Improve Sustainability?

► Mr. Alejandro Jiménez, SIWI

10:20 Case Study 1: The Real-time Water Point Functionality Tracking in Nigeria.

► Ms. Zainab Abubakar, Bakori Local Government Council

10:35 Case Study 2: Mobile-to-Web Monitoring of Sanitation in Zambia.

► Ms. Musonda Engervell, Ministry of Local Government and Housing, Zambia

10:50 Discussion: Promising Processes and Challenges Ahead Initial Reflections.

► Mr. Vernon Ngulube, Ministry of Local Government and Housing, Zambia

11:10 Coffee Break.

How Can We Strengthen Accountability in the Sustainability Frameworks?

11:30 Reflections from the Chair.

► Mr. Sanjay Wijesekera, UNICEF

11:40 Panel Discussion.

► Mr. Guy Hutton, WSP

► Mr. Dick van Ginhoven, DGIS

► Mr. Patrick Moriarty, IRC

► Dr. Joakim Harlin, UNDP

12:10 Q&A.

12:30 Close of Seminar.

[illegible]

T5

A combined seminar between the Water Research Commission (WRC) and UNESCO aimed at sharing results from separate and inter-related publications. The Africa gender mainstreaming in water management project conducted by the WRC and the GWP provides an account of the gender dimension in water policies at national level.

Hence UNESCO has incorporated the gender dimension in drought risk assessment and drought management which is important in reducing the impacts of drought on women and girls. The event places emphasis on the vulnerability of women and girls to drought because drought is not only a major water-related natural disaster affecting water supplies in many African countries, but also brings about serious negative impacts on health, well-being, livelihoods and education of women, girls and the poor.

- programme.worldwaterweek.org

TUESDAY • 09:00-12:30

IMPROVING THE IMPACTS AND EFFECTIVENESS OF CORPORATE WATER STEWARDSHIP INITIATIVES

K21

Convenors: **AWS, GIZ, UNGC CEO Water Mandate, WBCSD and WIN**

Businesses increasingly recognise that partnering with stakeholders can help them better address their greatest water-related risks. Donors are investing in these partnerships to leverage private sector involvement for sustainable water management. Although the case for water stewardship partnerships appears strong, it comes with governance challenges for all parties involved.

There is still much to learn to move from short-term projects with positive local impact to long term shifts for better water governance and societal benefits. While good practices are regularly brought to international attention, the perception of 'bad practice' can undermine the opportunity these partnerships present. Two key inter-related questions urgently need addressing:

a) how can these partnerships be made most effective to tackle shared water-related challenges to support water security, and b) how can their societal benefit be ensured?

The seminar will explore:

- a) how to design and establish high-integrity partnerships that serve the public interest;
- b) how to conduct participatory water risk assessments to develop broad consensus on priorities and build momentum for collective action;
- c) how to strengthen public sector capacity and policy implementation;
- d) how to transparently monitor, evaluate and communicate impacts. Audience inputs will contribute to a framework for assuring integrity in water stewardship partnerships.

09:00 Welcome and Opening Remarks.

Moderator: Mr. Robert Greenwood, Ross

Strategic

► Dr. Tania Rödiger-Vorwerk, BMZ

Managing Integrity: How to Improve the Impacts and Effectiveness of Corporate Water Stewardship Initiatives that Serve the Public Interest

09:10 Scene Setters.

► Mr. Jason Morrison, Pacific Institute

► Mr. Janek Hermann-Friede, WIN

09:30 Fishbowl Panel Discussion.

► Mr. Bert Share, Anheuser-Busch InBev

► Ms. Sonja Berdau, GIZ

► Mr. Roger Calow, Overseas Development Institute

► Mr. Ron Hoffer, U.S. Environmental

Protection Agency

► Mr. Carlo Galli, Nestlé

10:15 Q&A.

10:30 Coffee Break.

Reflecting on Water Stewardship Collective Action within the Context of Broader Water Governance

11:00 Scene Setters.

► Dr. Håkan Tropp, SIWI

► Ms. Liese Dallbauman, PepsiCo

11:20 Fishbowl Panel Discussion.

► Mr. David Hillyard, WaterAid

► Mr. Adrian Sym, AWS

► Mr. Bastiaan Mohrmann, 2030 WRG/IFC

► Ms. Brigitte Dietrich-Kremer, BASF

12:10 Q&A.

12:25 Concluding Remarks.

► Mr. Gavin Power, UN Global Compact

12:30 Close of Seminar.

SANITATION BUSINESS MODELS FOR SAFE RESOURCE RECOVERY AND REUSE (RRR)

T2

Convenors: **GIZ, IWMI, SDC and WHO**

Co-Convenors: **BORDA, BPD, cewas, Eawag, ETH Zürich, GTO, Sandec, Sanergy, SEI, SuSanA, Swiss TPH, Water for People and WBCSD**

Functional sanitation systems improve health and welfare and are fundamental to human development. Integrated business models throughout the sanitation value chain can turn waste into valuable resources such as biofuels or fertiliser and save water thus leading to even broader livelihood improvements. Most sanitation initiatives to reuse waste have depended heavily on subsidies, remained small or did not survive beyond their pilot phase. A new approach is needed to make resource recovery and safe reuse (RRR) solutions viable at scale and protective of public health.

This seminar will provoke discussion on exploiting the sanitation value chain and understanding how the benefits and

costs are perceived and accounted for throughout the value chain.

The seminar will combine the highlights of research on over 60 successful business cases and extracted business models for resource recovery and reuse in developing countries with a discussion on their applicability in a range of settings with practitioners and entrepreneurs. However, use of human waste presents risks and potential benefits to public health that need to be managed. The Sanitation Safety Planning Manual will also be presented to illustrate the practical implementation of the 2006 WHO Guidelines for Safe Use of Wastewater, Excreta and Greywater.

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|---|---|
| <p>09:00 Welcome and Opening Remarks.
Moderator: Dr. Pay Drechsel, IWMI
► Ms. Eileen Hofstetter, SDC</p> <p><i>Models and Tools for Safe Sanitation Businesses</i></p> <p>09:10 Setting the Scene for Integrated Business Models throughout the Sanitation Value Chain with Safe Resource Recovery and Reuse.
► Dr. Arne Panesar, GIZ</p> <p>09:20 Research on Business Cases.
► Dr. Miriam Otoo, IWMI</p> <p>09:30 Sanitation Safety Planning Manual
► Ms. Kate Medlicott, WHO
<i>Sanitation Business Models in Practice</i></p> <p>09:40 Introduction of the Country Presentations.
Moderator: Dr. Pay Drechsel, IWMI</p> <p>09:45 Sanitation Safety Planning (SSP) Lessons from Trials in Five Countries.
► Mr. Darryl Jackson, Independent Consultant</p> <p>09:55 Establishing O&M for Decentralised Urban Sanitation Infrastructure in Karnataka, India.
► Mr. Stefan Reuter, BORDA</p> <p>10:05 Waste to Energy for Urban India: Co-Fermentation of Organic Kitchen Waste and Septage.
► Dr. Regina Dube, GIZ</p> <p>10:15 Q&A.</p> <p>10:25 Coffee Break.</p> | <p>10:55 Sustainable Sanitation in East Africa's Urban Informal Settlements.
► Mr. David Auerbach, Sanergy</p> <p>11:05 Beyond the Latrine: Creating a Sanitation Industry.
► Ms. Katja Neubauer, Water for People</p> <p>11:15 Challenges in the Enabling Environment for Public Private Partnerships in Kampala Sanitation Sector
► Mr. Fredrick Tumusiime, GIZ</p> <p>11:25 EkoLakay to Konpos Lakay: SOIL's Household Toilet and Composting Experiences from Haiti.
► Mr. Nick Preneta, SOIL</p> <p>11:35 Q&A.
<i>Tipping Points: Barriers and Opportunities for Taking Models to Scale</i></p> <p>11:45 Panel Discussion.
Moderator: Mr. Ken Caplan, Partnerships in Practice
► Mr. Joppe Cramwinckel, WBCSD
► Dr. Heiko Gebauer, Eawag/Sandec
► Dr. Mirko Winkler, STPH
► Dr. Neil Macleod, eThekweni Municipality (tbc)
► Mr. Sam Parker, WSUP
► Mr. Jan Willem Rosenboom, BMGF (tbc)
► Dr. Akica Bahri, AfDB (tbc)</p> <p>12:25 Wrap-Up.</p> <p>12:30 Close of Seminar.</p> |
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TUESDAY • 09:00-12:30**WATER AND ENERGY IN GLOBAL CLIMATE POLICY: HOW TO INCREASE COHERENCE AND ENSURE EFFECTIVENESS?****T4**Convenor: **SIWI**Co-Convenors: **AGWA, AFD, CI, EDF, FWP, GDF SUEZ, GWP, MAE, IenM, OECD and UNECE**

Water and energy are reciprocally fundamental for climate change adaptation and also plays a role in mitigation. Thus, water management is central to the success of implementing future global climate agreements. Demonstrating the positive effects of innovative approaches to adaptation for water can help to raise the level of ambition of the global agenda and advance practical efforts on the ground.

One year ahead of the decisive UNFCCC Conference of the Parties in 2015 the seminar will showcase targeted efforts for closing the gap between global mechanisms, such as the UNFCCC, and effective adaptation on the ground. It will elaborate

on the links between the global climate negotiations and the role of sustainable energy in both mitigation and adaptation strategies.

Case studies on water-related adaptation and mitigation as a driver of innovative solutions to face climate change will be presented. The seminar will raise the question of how to increase resilience of infrastructures and institutions to droughts, floods and other extreme events. How can we ensure that national and global priorities support effective adaptation on the ground? How can lessons from the water and energy communities be better incorporated in UNFCCC processes?

09:00 Welcome and Opening Remarks.

Chair: Ms. Anna Forslund, SIWI

09:10 Panel Discussion.

Moderator: Dr. John Matthews, CI

- Ms. Karin Lexén, SIWI
- Ms. Kathleen Dominique, OECD
- Mr. Sahel Tamiru Fekede, Ministry of Water Irrigation and Energy, Ethiopia
- Mr. Niels Vlaanderen, IenM

Case Studies**09:45 Garonne 2050 Prospective Study: A Tool for a Better Understanding of Climate Change Impacts on Water.**

- Mr. Jean Comby, EDF
- Mr. Laurent Bergeot, Adour-Garonne

10:00 Linking Global to National: Advancing Climate Adaptation in National Planning.

- Ms. Susanne Skyllerstedt, GWP

10:15 Collaborative Approach to Assess Climate Change Risks.

- Mr. Philippe Meunier, GDF- SUEZ

10:30 Coffee Break.**11:00 Enhancing the Climate Resilience of African Infrastructure.**

- Ms. Lise Breuil, French Development Agency
- Mr. Mark Howell, KTH, Sweden

11:15 Transboundary Impacts of Climate Change. How to Establish Resilient Cooperation and Effective Mitigation and Adaptation Strategies? (tbc)**11:30 Recommendations from the 4th Forum on the Climate-Water Energy Security Nexus.**

- Mr. Philippe Joubert, WBCSD

11:40 Panel Discussion.

Moderators: Dr. John Matthews and Ms. Karin Lexén, SIWI

12:15 Closing Comments and Message to UNFCCC COP.

- Mr. Fabien Dupuis, MAE

12:25 Recommendations to Workshop "Mitigation and Adaptation Measures for Climate Change: How to Converge over Energy and Water Organisation".

Chair: Ms. Anna Forslund, SIWI

12:30 Close of Seminar.

WATER AND SHALE ENERGY DEVELOPMENT: RISKS AND FUTURE IMPLICATIONS FOR SOCIETY

K22/
K23

Convenor: **WRI**

Co-Convenors: **BuZa, Ceres, GE, and SIWI**

Shale energy development is a water-intensive business, with local water demands that need to be met to successfully extract the resources. Research by the World Resources Institute finds that close to 50 per cent of shale gas and oil worldwide is located in arid areas, or subject to high water stress. Local water use for hydraulic fracturing can be very large, and water sources are often poorly disclosed. As governments, investors and companies start exploring the commercialisation of shale resources, it is critical that they understand the risks and impacts of hydraulic fracturing, as well as implications for other water users.

This seminar will showcase new research from WRI on water availability-related environmental and financial risks. It

will also explain the societal implications associated with shale energy development through hydraulic fracturing worldwide.

For the first time, it will showcase information on current and future water risks associated with international shale development using estimates based on socio-economic and climate change scenarios from IPCC's Fifth Assessment Report. During the seminar, companies, governments and investors will share their perspectives on the implications of such findings and highlight areas most in need for coordinated energy and water policies, governance and investments.

09:00 Welcome and Opening Remarks.

► Mr. Keith Schneider, Circle of Blue

Water Availability Constraints to Global Shale Energy Development

09:10 Launch of WRI Report "Global Shale Gas Development: Water Availability Constraints and Business Risks".

► Mr. Paul Reig, WRI

09:30 Water Availability Constraints to Shale Development in the United Kingdom.

► Mr. Jim Marshall, Water UK

09:45 Water Availability Constraints to Shale Development in South Africa.

09:55 Panel Discussion.

Moderator: Mr. Keith Schneider, Circle of Blue

► Mr. Paul Reig, WRI

► Mr. Jim Marshall, Water UK

10:25 Coffee Break.

Water Availability Constraints and Implications of for Governments, Society, Investors, and Companies Involved in Shale Gas Development Worldwide

10:55 Brief Remarks and Summary of First Theme.

► Mr. Keith Schneider, Circle of Blue

11:05 Solutions to Mitigate Water Sourcing Risks to Shale Development.

► Mr. Jon Freedman, GE Power & Water

11:15 The Role of Responsible Investors in the Development of Shale Energy.

► Ms. Monika Freyman, Ceres

11:25 Social Barriers to Water Use For Shale Development. (tbc)

11:35 Water Governance and Policy Requirements Moving Forward.

► Mr. Andreas Lindström, SIWI

11:45 Corporate Water Stewardship in the Oil and Gas Sector.

► Mr. Cal Cooper, Apache Corp.

11:55 Q&A and Panel Discussion.

Moderator: Mr. Keith Schneider, Circle of Blue

► Mr. Jon Freedman, GE Power & Water

► Ms. Monika Freyman, Ceres

► Mr. Andreas Lindström, SIWI

► Mr. Cal Cooper, Apache Corp.

12:25 Wrap-Up.

► Mr. Keith Schneider, Circle of Blue

12:30 Close of Seminar.

TUESDAY • AFRICA FOCUS • 09:00-18:45 • ROOM K2

SEMINAR • 09:00-11:00

GROWING THE LINK BETWEEN WATER AND ENERGY FOR DEVELOPMENT

Convenors: **AMCOW** and **AUC**

Co-Convenors: **AWF and GWP**

To grow the link between water and energy for development remains acute in a continent such as Africa where the electricity generation is the lowest in the world and hydropower potential is under developed. The immense hydropower potential for the continent is better grasped when viewed from the perspective that the less than 8 per cent potential developed supplies 32 per cent of the current energy production in the continent. The event will be organised through expert paper presentations and panel discussions.

Shared Waters. Shared Benefits

**Chair: Hon. Mansour Faye, AMCOW President
and Minister for Water and Sanitation,
Republic of Senegal**

09:00 Welcome Statement.

► Mr. Bai Mass Taal, AMCOW

09:10 Statement by AUC.

09:20 Opening Statement.

► Hon. Mansour Faye, AMCOW President and Minister for Water and Sanitation, Republic of Senegal

09:30 Introduction.

► Hon. Desire Guedon, Minister for Energy for Energy and Hydro Resources, Gabon

09:35 Creating Efficient Mix in Water Supply, Irrigation and Hydropower Projects: Focus on the Kashambilla Dam Projects.

► Hon. Sarah Reng-Ochekpe, Nigeria's Minister for Water Resources (tbc)

09:55 Unlocking Africa's Hydro Power Potentials:
the Grand Inga Dam African Transformation
Project.

► Mr. Simon Sakibede, CICOS (tbc)

10:10 Panel Discussion on Growing the Link
between Water and Energy for Development.
Moderator: Dr. Stephen Donkor (tbc)

► Hon. Sarah Reng-Ochekpe, Nigeria's Minister for Water Resources (tbc)

► Mr. Simon Sakibede, CICOS (tbc)

► Jasper Oduor, Eastern Africa Power Pool (tbc)

► Dr. Elijah Phiri, AU-NEPAD CAADP (tbc)

► Mr. Mahama Kappiah, ECOWAS (tbc)

► Mr Trevor Balzer, Department for Water Affairs, South Africa (tbc)

11:00 Closing Summary by Co-Chair,

► Hon. Mr. Mutaaz Musa Abdalla Salim,
AMCOW

WASTE FOR IRRIGATION AND ENERGY PRODUCTION

Convenors: **AMCOW and AUC**

Co-Convenors: **AWF and GWP**

The event is a continuation of the morning seminar.

11:00 Introduction.

► Hon. Saviour. Kasukuwere, Minister of Environment, Water and Climate, South Africa

11.05 Presentation.

► Prof. Kalanithy Vairavammoorthy, University of South Florida, USA

11:30 Panel Discussion: Turning Waste into Energy in the Cities of the Future in Africa.

► Mr. Brian Arbogast, Gates Foundation

► Prof. Kalanithy Vairavamooty, University of South Florida, USA

► Dr. Akissa Bahri. AWF

12:55 Closing Statement.

► Hon. Hocine Necib, Minister for Water Resources, Algeria

13:00 Lunch.

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BUILDING CLIMATE RESILIENCE FOR WATER AND ENERGY INFRASTRUCTURE

Convenors: **AMCOW and GWP**

Co-Convenors: **AWF and ICA**

Integrating climate resilience in the water and energy nexus is critical to improving water and energy security. Demand driven interventions lead to development of sustainable infrastructure and attract high participation of stakeholders. This will include establishing partnerships and sharing information on water security with relevant stakeholder-wide people and institutions, developing capacity and working with donors to support climate change adaptation options with proven integrated water safety measures to have the most viable alternative for communities.

- 14:30 Opening Statement.
 - S.E.Mme Mamounata Belem Ouedraogo, Minister for Water, Hydraulic Amenities and Sanitation, Burkina Faso
- 14:35 Presentation on On-Going Initiatives. WACDEP: Building Climate Resilience and Water Security.
 - Mr. Andrew Takawira, GWP Integrating Climate Resilience in Water and Energy Infrastructure Development.
 - Dr. Akissa Bahri, AFW
- 14:55 Panel Discussion.
 - Moderator: Dr. Ania Grobicki, GWP
 - Hon. Stanislas Kamanzi – Minister of Natural Resources, Rwanda (tbc)
 - Ms. Sonja Hoess, Infrastructure Consortium for Africa
 - Dr. Akissa Bahri, AWF
 - Ms. Phera Ramoeli, SADC
- 16:00 Closing Statement.
 - AfDB Representative
- 16:05 Coffee Break.

HIGH-LEVEL MINISTERIAL PANEL

Convenors: **AMCOW and AUC**

The event will be organised through expert paper presentations and panel discussions.

- 16:30 Opening Comments.
 - Hon. Mansour Faye, AMCOW President and Minister for Water and Sanitation, Republic of Senegal
- 16:35 Presentation on Africa's Grand Challenges: Water, Energy and Climate Resilience.
 - Dr. Ania Grobicki, GWP
- 16:45 Presentation of Outcomes of Earlier Sessions.
- 17:15 Interventions from AMCOW Ministers.
- 18:15 Special Launches.
- 18:30 Closing Statements.
 - Hon. Mansour Faye, AMCOW President and Minister for Water and Sanitation, Republic of Senegal
 - AUC Representative
- 18:45 Close of Focus Day.

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TUESDAY • LAC FOCUS • 09:00-18:45 • ROOM T3

SEMINAR • 09:00-12:30

THE WATER-ENERGY NEXUS IN LATIN AMERICA: UNDERSTANDING THE UPSTREAM AND DOWNSTREAM SYSTEMS

Convenors: **CAF, FEMSA Foundation and TNC**Co-Convenors: **The Coca-Cola Company, EPM, ITAIPU, ITESM, Sabesp, WB and WWF**

Energy and water are intrinsically connected; we need water for energy and energy for water, while the conservation and efficiency in the management of both brings mutual benefits for society and ecosystems without hampering economic growth. Understanding this complex relationship, as the demand for both water and energy continues to grow, is crucial if we want to ensure an efficient and sustainable production and use for the future, benefitting people, the environment and economies. Synergies between energy, water and ecosystems preservation are strong in Latin America and the Caribbean, hydropower is the dominant source of electricity with a high undeveloped potential. Given the intrinsic link, there is a need for an integrated planning and

management approach to maximise their potential. Yet decision making processes regarding their expansion and the provision of services often occur isolated from one another. This seminar will focus on the challenges and opportunities of advancing towards an approach where water, energy and ecosystems are planned and managed jointly. Practical examples of integrated planning and management will be presented to address the challenges and opportunities of basin management, strengthening the institutional capacity, in order to achieve sustainability of shared water resources and energy supplies in the region; while also discussing the downstream sustainability, specifically addressing the complex dynamics of the different uses of water.

09:00 Welcome and Opening Remarks.

- ▶ Mr. Daniel Rivera, CAF
- ▶ Mr. Vidal Garza, FEMSA Foundation

09:10 Topic Introduction on Water – Energy – Ecosystem Nexus in LAC Region.

- ▶ Mr. Jerson Kelman, Federal University of Rio de Janeiro, Brazil

Upstream Challenges and Opportunities of Basin Management

09:30 Setting Basin-Wide Water Management and Hydropower Uses.

- ▶ ITAIPU Binacional

09:45 The Water and Energy Utility Perspective.

- ▶ Ms. María Isabel Gómez Ochoa, EPM

10:00 Stakeholder's Cooperation to Preserve Water and Energy Resources through Water Funds.

- ▶ CFE

10:15 Case Studies and Benefits of the Hydropower Sustainability Assessment Protocol (HSAP).

- ▶ Dr. Lifeng Li, WWF

10:30 Panel Discussion.

10:50 Coffee Break.

Downstream Sustainability: The Complex Dynamics of the Different Uses of Water

Moderator: Mr. Abel Mejia, CAF

11:00 Industrial Use of Water: How to Ensure Sustainable and Equitable Use.

- ▶ Mr. Greg Koch, The Coca Cola Company

11:15 Brewing a Better Future: Heineken's Water Strategy

- ▶ Mr. Ron Bohlmeijer, Heineken

11:30 Water and Energy Efficiency in a Water Utility.

- ▶ SABESP

11:45 The Water-Energy Nexus.

- ▶ Dr. Diego Rodriguez, WB
- ▶ Mr. Mauricio Garrón, CAF

12:00 Panel Discussion.

12:20 Final Reflections.

- ▶ Mr. Hans Herrmann, IISD

12:30 Close of Seminar.

SIDE EVENT • 12:45-13:45

PRIVATE SECTOR INNOVATION IN WATER STEWARDSHIP: THE CASE OF COCA-COLA IN LATIN AMERICA

Convenors: **The Coca-Cola Company, FEMSA Foundation, IADB and TNC**

This side event will provide an example of a successful partnership between business, international organisation and an NGO

to scale sustainable solutions for water stewardship that benefit communities, nature, and industries alike.

12:45 Welcome and Opening Remarks.

Moderator: Mr. Todd Gartner, WRI

12:52 Panel Discussion.

- ▶ Ms. Ángela Zuluaga, The Coca-Cola Company
- ▶ Mr. Hugo Contreras, TNC

- ▶ Mr. Sergio Campos, IADB

- ▶ Mr. Vidal Garza Cantú, FEMSA Foundation

13:22 Q&A.

13:38 Conclusions.

- ▶ Mr. Giulio Boccaletti, TNC

13:45 Close of Side Event.

ENERGY AND WATER EFFICIENCY FROM THE NATIONAL TO THE COMMUNITY LEVEL IN THE AMERICAS

Convenors: **FEMSA Foundation, IADB, TNC and WWF**

From growing nations to cities to small communities, everybody depends on reliable energy and water supplies.

In Latin American countries and the Caribbean, the demand for both is expected to increase as populations and economic activity grow in the regions. Given the interdependencies of water and energy, finding integrated approaches to securing a reliable supply of both will be crucial to meeting the needs of communities and business while safeguarding the ecosystems upon which they depend.

Addressing these challenges in the context of a changing climate will carry physical and institutional difficulties, as well as difficulties associated with existing water and energy efficiency at city and community level. This seminar focuses on presenting several examples of energy and water planning models, decision support tools, and efficiency programs at different levels in Latin American and Caribbean countries.

14:00 Welcome and Opening Remarks.

- Mr. Sergio Campos, IDB

14:10 Topic Introduction.

- Mr. Anders Berntell, 2030 WRG (tbc)

14:20 Managing Hydropower Development in the Magdalena River Basin and Coatzacoalcos River Basin.

- Mr. Hugo Contreras, TNC

14:40 Hydrological Information System – Amazon River Assessment (HIS-ARA) Supporting Greener Hydropower Planning in the Amazon.

- Mr. Glauco de Freitas, WWF

15:20 Panel Discussion.

15:40 Coffee Break.

Moderator: Mr. Rodrigo Riquelme, IDB

15:50 How the IDB is Addressing Non-Revenue Water and Energy Efficiency.

- Mr. Rodrigo Riquelme, IDB

16:10 Non-Revenue Water in Latin America and the Caribbean: Diagnosis, Best Practices and Key Aspects in the Development of Strategies and Projects.

- Mr. Arturo Pedraza, International Consultant

16:30 Energy Efficiency in the Water and Sanitation Sector: A Diagnose for Latin America and the Caribbean.

- Mr. Alan Wyatt, RTI

16:50 Panel Discussion.

17:20 Closing Remarks.

- Mr. Giulio Boccaletti, TNC

17:30 Close of Seminar.

SCIENCE AND TECHNOLOGY PERSPECTIVES FOR THE ENERGY-WATER NEXUS IN LATIN AMERICA

Convenors: **CAALCA, FEMSA Foundation and ITESM**

Co-Convenors: **Imperial and JRC**

This event will discuss social and economic wealth, technological and political perspectives for use and treatment of water. Main

challenges and opportunities will be discussed by experts in each field.

17:45 Welcome and Introduction.

- Dr. R. Parra, CAALCA

17:50 Water Energy Nexus, Barriers and Challenges.

- Dr. C. Carmona Moreno, EUROCLIMA-Water

18:10 The Experience on Renewable Energy in Latin America.

- Dr. Rocio Díaz-Chávez, Imperial

18:30 Panel Discussion: Sustainable future for Water-Energy Nexus.

- Dr. R. Parra, CAALCA

- Dr. C. Carmona Moreno, EUROCLIMA-Water

- Dr. Rocio Díaz-Chávez, Imperial

18:40 Closing Remarks.

- Dr. Rocio Díaz-Chávez, Imperial

18:45 Close of Focus Day.

SEMINAR • 14:00-17:30

INTRODUCTION

SUNDAY

MONDAY

TUESDAY

WEDNESDAY

THURSDAY

FRIDAY

SOCIAL/AWARDS

GENERAL INFO

SIDE EVENT • 17:45-18:45

TUESDAY • 12:45-13:45

A TRIPLE WIN: CREATING FINANCIAL VALUE FOR WATER THROUGH NEXUS APPLICATION IN THE TEXTILE INDUSTRY

K16/
K17

Convenors: **SIWI and STWI**

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This side event will demonstrate how a successful Swedish sustainable water project for textile producers used energy and chemicals as proxies to set financial values to water savings, resulting in a 765 per cent ROI in its first year. Scale-up the project in 3-5 countries, involving 20+ brands and hundreds of suppliers.

12:45 Welcome and Opening Remarks.
13:00 Water and Energy Integration in Indian Textile Industries.
 ▶ Mr. Pawan Mehra, cKinetics
13:15 Scaling-Up Success: Building the Case for the Swedish Textile Industry.
 ▶ Mr. Rami Abdelrahman, SIWI
13:30 Panel Discussion.
13:45 Close of Side Event.

ARE YOU STILL POURING YOUR POST-2015 WATER INVESTMENTS DOWN THE DRAIN?

K22/
K23

Convenors: **USAID and WaterAid**
Co-Convenors: **Plan International**

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How can you achieve impact from WASH investments in the Post-2015 period? Investments in infrastructure alone will not yield the health, equity and economic benefits many countries are working toward. This session will highlight evidence-based steps you can take to ensure that water investments yield maximum health and economic improvements.

12:45 Panel Introduction.
 ▶ Ms. Merri Weinger, USAID
12:55 Top 5 Reasons for Promoting the H in WASH.
 ▶ Dr. Orlando Hernandez, FHI 360
 ▶ Dr. Darren Saywell, Plan International
13:15 Q&A.
13:20 WaterAid Official.
13:25 Call to Action.
 ▶ Ms. Hanna Woodburn, Global Public-Private Partnership for Hand Washing
13:45 Close of Side Event.

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SOLAR POWER FOR COMMUNITY WATER SUPPLY: DO THE ECONOMICS WORK?

K24

Convenors: **Conrad N. Hilton Foundation and Safe Water Network**

Learn how the economics of solar power compare to grid power and impact sustainable access to safe water. Panelists will present case studies on the economic tradeoffs and implementation challenges faced in the field.

- 12:45 Welcome and Opening Remarks.
 - ▶ Dr. Darren Saywell, Plan International
- 12:50 Case Study Presentations.
 - ▶ Mr. Joseph Ampadu-Boakye, Safe Water Network
 - ▶ Mr. Sean Kerrigan, World Vision
 - ▶ Mr. Rasoul Mikkelsen, Grundfos Lifelink
- 13:15 Commentary.
- 13:20 Panel Discussion.
- 13:40 Summary and Closing Remarks.
 - ▶ Dr. Darren Saywell, Plan International
 - ▶ Ms. Amanda Gimble, Safe Water Network
- 13:45 Close of Side Event.



Photo: K-water

WHAT DO WE KNOW ABOUT WASH AND NUTRITION LINKAGES TO REDUCE CHILD MORTALITY?

T6

Convenors: **UNICEF, USAID and WHO**

What do we know about WASH and Nutrition linkages to reduce child mortality? Chronic undernutrition (stunting) is one of the world's most serious but least addressed public health problems.

- 12:45 Welcome and Opening Remarks
 - ▶ Mr. Sanjay Wijesekera, UNICEF
- WASH and Nutrition*
Moderator: Mr. Evariste Kouassi-Komlan, UNICEF
- 12:50 Evidence on the Links Between Stunting and Wasting.
 - ▶ Ms. Diane Holland, UNICEF
- 13:00 Evidence on WASH and Nutrition and Application.
 - ▶ Mr. Oliver Cumming, London School of Hygiene and Tropical Medicine

The session will present evidence and operational experience in integrating WASH and Nutrition, thereby contributing to growth and development.

- 13:10 Panel Discussion.
 - ▶ Ms. Merri Weinger, USAID
 - ▶ Ms. Diane Holland, Nutrition, UNICEF
 - ▶ Mr. Oliver Cumming, London School of Hygiene and Tropical Medicine
- 13:40 Key Action Points.
 - ▶ Ms. Cecilia Scharp, UNICEF
- 13:45 Close of Side Event.



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TUESDAY • 14:00-17:30

ADDRESSING EQUITY IN THE WATER,
SANITATION AND HYGIENE SECTOR

T6

Convenor: **SHARE**Co-Convenors: **IIED, UNICEF and WaterAid**

Wateraid will begin by outlining barriers that disabled people, older people and people with chronic illness face when accessing WASH in Uganda (Katakwi and Amuria Districts) and Zambia (Monze district), then present an inclusive WASH approach developed to address those barriers, and the early impacts of the interventions.

The second presentation, led by local government and SDI grassroots activists, will focus on spatial equity in sanitation provision planning at the city-level, drawing on pilots in informal settlements in four African cities, with a presentation from Malawi (Blantyre). The presentation draws on action research conducted by SDI and IIED, and covers the challenges of providing scalable sanitation solutions with, and for, the urban poor in partnership with local government.

The third presentation will focus on UNICEF's Monitoring Results for Equity System (MoRES). This framework developed in 2010 as part of UNICEF's refocus on equity. It enhances existing frameworks to improve results for the most disadvantaged children, and has been applied to all development programs including WASH. The session will draw from four years of MORES implementation in over 20 countries. Lessons learnt from UNICEF work on Real time monitoring to improve efficiency and program effectiveness in selected countries will be shared.

14:00 Welcome and Opening Remarks.

► Mr. Oliver Cumming, London School of Hygiene and Tropical Medicine

14:10 WASH Monitoring for Results and Equity System and Real Time Monitoring.

► Ms. Clarissa Brocklehurst, UNICEF

► Maniza Zaman, UNICEF

► Ms. Evariste Kouassi-Komlan, UNICEF

14:30 Q&A.

14:35 WaterAid: Undoing Inequity: WASH programmes that Deliver for All in Uganda and Zambia.

► Ms. Jane Wilbur Wateraid Equity, WaterAid

► Mr. Spera Atuhairwe, WaterAid

14:55 Q&A.

15:00 Panel Discussion.

Moderator: Mr. Oliver Cumming, London School of Hygiene and Tropical Medicine

15:40 Coffee Break.

15:55 Introduction.

► Mr. Oliver Cumming, London School of Hygiene and Tropical Medicine

16:00 Reflections on Partnerships for Pro-Poor City-Wide Sanitation in Malawi.

► Mr. Zilirewekha Luka, Centre for Community Organisation and Development, Malawi

► Dr. Emmanuel Kanjunju, Blantyre City Council

► Ms. Mphatso Njunga, Trustee, Malawian Federation of the Rural and Urban Poor

16:20 Q&A.

16:40 Panel Discussion.

17:30 Close of Seminar.

LEARNING FROM #FAILS IN WATER AND ENERGY

T5

Convenor: **SIWI**

The opportunities of learning from failure are countless. Yet organisations and businesses that are willing to share these lessons with others are rare because they are often afraid of admitting failure. This represents a missed opportunity. Openly acknowledging failure promotes innovation and collaboration among colleagues.

The early recognition of failures and subsequent adaptation is crucial for avoiding bigger 'disasters' or 'dead alleys' over the long term of projects. This is particularly true for problems that are too complex to be solved by linear approaches but which require continuous adaptation.

The aim of the seminar is to provide a space for water and energy practitioners, scientists, donors, and policymakers, where they can discuss theory and implementation failures and lessons learned from these failure experiences. From looking at cross-cutting issues in the water and the energy sector, to personal and professional experiences, presenters will share their perspectives on learning from failure. Some of the key questions that will be discussed during the session include:

- How can we draw lessons learned and best practices from projects that have failed in the water and energy sector?
- Why sharing failures is important for promoting sustainable development?

Participation from the audience is encouraged.

14:00 Introduction.

- ▶ Mr. Luca Di Mario
- ▶ Ms. Olimar Maisonet-Guzmán, UN MGCY

14:15 Paradigmatic Obstacles in Addressing Water Problems. Four Examples from a 50-year Plus Career.

- ▶ Prof. Malin Falkenmark, SIWI and SRC

14:35 Participatory Irrigation Management: Hits and Misses.

- ▶ Dr. Aditi Mukherji, ICIMOD

14:55 From Guinea Pigs and White Elephants.

- ▶ Dr. Pay Drechsel, IWMI

15:15 Panel Discussion.

15:35 Coffee Break.

16:05 Power to Segregate: Attempts at Managing Irrigation Pumping in India.

- ▶ Dr. Jenny Grönwall, SIWI

16:25 To Fail Was My Biggest Mistake, until I Finally Started to Learn.

- ▶ Mr. Peter Anderberg, Climate Bridge

16:45 Panel Discussion and Conclusions.

17:30 Close of Seminar.

TUESDAY • 14:00-17:30

LESSONS AND RESOURCES: THE ENERGY-WATER NEXUS IN THE US

K22/
K23Convenors: **GWC, NRDC, US Department of State and USWP**Co-Convenors: **GETF and PISCES Foundation**

This session will illustrate how the United States is addressing water and energy challenges, and how resources available through the US Water Partnership Web Portal can help others learn from those experiences.

Participants will be introduced to the Web Portal, a dynamic platform intended to provide simplified and user-friendly access to leading U.S. based information and resources for developing solutions to significant global water challenges.

Several case studies will be examined. In each case, the initial challenge to be addressed will be described to the participants. Participants will then form small groups and use the Web Portal on their tablets, computers, and mobile phones to identify resources on the Web Portal that could help to inform a solution to the challenge described.

After several groups share their findings with the audience, a presenter involved in the case study will explain how they developed or used resources available on the USWP Web Portal to address water-energy challenges. They will also share other results from the case study and explain how these can be used by participants to address their own challenges. The case studies presented will broadly cover the United States, with a focus on the American West.

The session will conclude with a panel of experts from US private sector, civil society, and academia who will briefly outline the trends, current challenges and opportunities in sharing in sharing data, lessons and resources, especially on the issue of the water-energy nexus. The panel will close with a short question and answer session.

14:00 Welcome and Opening Remarks.

- ▶ Dr. Aaron Salzberg, US Department of State
- ▶ Mr. David Beckman, J.D., Pisces Foundation

14:10 Portal Overview.

- ▶ Mr. Chuck Chaitovitz, USWP
- ▶ Ms. Kristen Ward, USWP

Case Study 1**14:30 Challenge Presented.**

- ▶ Mr. Steve Fleischli, J.D., Natural Resources Defense Council

14:35 Participants Explore Portal.**14:50 Users Present Resources Identified.****15:00 Expert Results Presented.****15:20 Coffee Break.****Case Study 2****15:30 Challenge Presented.**

- ▶ Mr. David Tall, NASA, USA

15:35 Participants Explore Portal.**15:50 Users Present Resources Identified.****16:00 Expert Results Presented.****16:20 Panel Discussion.****Moderator: Mr. David Beckman, J.D., Pisces Foundation**

- ▶ Mr. Albert Cho, Xylem
- ▶ Dr. Alfred Duda, WWF
- ▶ Dr. Bob Wilkinson, University of California at Santa Barbara, USA
- ▶ Ms. Heather Cooley, Pacific Institute

17:00 Q&A.**17:30 Close of Seminar.**

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K21

Through a series of short presentations and a panel discussion, the Founders Business Seminar will focus on if and how the private sector can contribute to sustainable scaling up of the provision of sanitation services. What is the sanitation market niche for corporations to get involved in? Should the business model be built around closing the loop and combining sanitation, energy and agricultural services? What are the conditions to attract impact investment into WASH at a much bigger scale? The seminar will seek to provide perspectives and answers on questions that underpin the development of inclusive sanitation business models benefitting from the experience of private sector, regulators, civil society and investors.

- 14:00 Welcome and Opening Remarks.
▶ Mr. Jens Berggren, SIWI
- 14:10 Introduction to the Stockholm Industry Water Award and
Presentation of the 2014 Winner.
▶ Ms. Karin Lexén, SIWI
▶ Mr. Peter Forssman, Chair of the SIWI Board
- 14:25 Acceptance Speech and Introduction to Founders Business
Seminar.
▶ Mr. Neil Macleod, eThekwin, South Africa
- 14:40 Introductory Briefs.
▶ Dr. Miriam Otoo, IWWI
▶ Dr. Philippe Rohner, Pictet Group
▶ Ms. Ingmarie Ahlberg, Development Administration of
Stockholm
▶ Prof. Grietje Zeeman, WUR
▶ Mr. David Auerbach, Sanergy
- 15:15 Coffe Break.
- 15:45 Welcome Back.
- 15:50 Panel Discussion.
- 16:50 Closing Remarks.
- 17:00 Close of Seminar.

TUESDAY • 14:00-17:30

THE POWER OF FLOWS: NEGOTIATING SUSTAINABLE HYDROPOWER THROUGH ENVIRONMENTAL FLOWS

T2

Convenors: **AGWA, eFlowNet, CI, IUCN, Itaipu Binacional, KAU, RTI, SEI, SIWI, SLU, SwAM, UNESCO-IHE, UNIOESTE, UMU, TNC and WWF**

The promise of sustainable hydropower has proven elusive and controversial. How can we ground sustainability in resilient ecosystems and the natural flow regime while providing sufficient energy for dynamic, growing economies? Is it possible to include ecosystems as performance markers, or should we use “protective” regulatory approaches? Do we need different methodologies in developed relative to developing economies? What does sustainability mean in regions with limited eco-hydrological records? Emerging trends in environmental flows enable a broader view of nexus issues and long-term sustainability.

New tools for infrastructure design and management and scientific assessment suggest that effective decision-making frameworks can achieve poverty alleviation and energy security with ecological integrity in both developing and developed economies.

In this seminar, we will actively define sustainability for hydropower by engaging speakers and attendees, confronting tools, cases, policy, and science to energise the practice of managing flows for power and ecosystems.

14:00 Welcome and Opening Remarks.

14:05 Introduction: Defining Sustainability across Scales.

Local Scales: Populations, Infrastructure, Water Managers

14:15 Fishing for the Environment in Brazil: Hydropower and Fish Migration.
 ▶ Mr. Domingo Fernandez, ITAIPU
 ▶ Prof. Sergio Makrakis, Paraná University, Brazil
 ▶ Ms. Maristela Makrakis, West Paraná University, Brazil

14:30 Experiences from Swedish Ecoflows.
 ▶ Dr. Birgitta Malm-Renöfält, UMU, Sweden
 ▶ Prof. Larry Greenberg, KAU, Sweden
 ▶ Mr. Olle Calles, KAU, Sweden

Basin Scales: Networks and Communities

15:00 Untangling Upstream-Downstream Impacts at High Definition.

▶ Mr. Robert Dykes, RTI

15:15 Allocation, Connectivity, and Electricity.
 ▶ Dr. Bart Wickel, SEI

15:30 Break – Roundtable Discussion on Flows and Hydropower.

▶ Mr. Domingo Fernandez, ITAIPU
 ▶ Dr. Olle Calles, KAU

National Scales: Managing Across Sectors, Policies, and Ministries

16:00 Introduction to Theme.

16:15 Moving from Basin Success to National Water Environmental Allocations.

▶ Dr. Eugenio Barrios, WWF-MX
 ▶ Mr. Mario Lopez, Conagua

16:30 Bold Action to Conserve Rivers of the Caucusus: Georgia's Environmental Flows Strategy.

▶ Prof. Michael McClain

16:45 Panel Discussion.

Moderator: Mr. Al Duda, WWF

17:25 Conclusions and Next Steps.

17:30 Close of Seminar.

THE WATER-ENERGY NEXUS IN THE CONTEXT OF GREEN GROWTH

T4

Convenors: **K-water, WWFKNC and WWC**

Co-Convenors: **ADB, IUCN, OECD and WB**

In response to unsustainable business-as-usual practices, the green growth initiative has emerged as a pathway to sustainable development. Water and energy are among the most crucial elements for green growth. However, increasing population growth, especially in urban areas, and climate change have exacerbated global water stress, and a growing middle class has shifted consumption patterns toward greater water and energy demand.

Yet, energy policies often fail to account for water availability, and water provision is often energy-intensive. It is imperative to find effective ways to coordinate the conflicting water and energy policies for the best results in the context of green growth.

As an initiator of discussions on green growth, the Government of Korea is undertaking a collaborative research project entitled “Water and Green Growth” with the World Water Council. The objective of this research is to support the creation of policy instruments that strengthen the role of water in realising green growth.

The seminar will focus on identifying and discussing policy instruments that can effectively coordinate water and energy sector policies in the context of green growth. The OECD, World Bank, ADB, IUCN and K-water will share lessons from their experiences at the international, regional and national levels.

14:00 Welcome and Opening Remarks.

- ▶ Prof. Benedito Braga, WWC
- ▶ Dr. Byung-Man Choi, K-water

Integrated Policy to Realise Green Growth

14:10 Thirsty Energy.

- ▶ Dr. Diego Rodriguez, WB

14:25 The Water-Energy Nexus with Viewpoint on the Wider System.

- ▶ Dr. Mark Smith, IUCN

14:40 Policy Instruments to Implement Green Growth: Water Policy Reforms.

- ▶ Dr. Xavier Leflaive, OECD

14:55 Q&A and Panel Discussion.

Moderator: Dr. Torkil Jonch-Clausen, DHI

- ▶ Mr. Richard Taylor, IHA
- ▶ Mr. Jean Comby, EDF
- ▶ Mr. Anthony Jude, ADB
- ▶ Mr. Christopher Napoli, KAPSARC

15:25 Coffee Break.

Putting Green Growth in Practice

15:45 Case Study in Korea.

- ▶ Mr. Taesuno Shin, K-water

16:00 Case Study in Nepal.

- ▶ Prof. Phoebe Koundouri, LSE

16:15 Case Study in India.

- ▶ Ms. Marcia Brewster, Nautilus

16:30 Q&A.

Moderator: Mr. Alfred Duda, WWF

16:50 Closing Remarks.

- ▶ Prof. Dogan Altinbilek, WWC

17:30 Close of Seminar.

TUESDAY • 17:45-18:45

HOW DID ASIAN TIGERS
IMPROVE THEIR SANITATION
COVERAGE SO QUICKLY?K16/
K17Convenor: **WaterAid**

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This event will showcase the examples of positive deviance in sanitation achievements in developmental states of East Asia. The lessons learned will challenge sector programming, while offering inspiration and ideas to policy-makers and practitioners in all regions.

17:45 Introductions.

- ▶ Mr. Henry Northover, WaterAid

17:50 Presentation of Summary Findings so Far for Discussion.

- ▶ Mr. Tim Brewer, WaterAid

18:05 Panel Discussion.

- ▶ Mr. Sanjay Wijesekera, UNICEF
- ▶ Prof. Jamie Bartram, University of North Carolina at Chapel Hill, USA
- ▶ Prof. Don Holzwarth, UNC, USA
- ▶ Ms. Jennifer Holzworth, UNC, USA
- ▶ Prof. Diana Mitlin, IIED

18:35 Q&A.

18:45 Close of Side Event.

MANAGING CLIMATE RISK IN
CORPORATE VALUE CHAINS:
COLUMBIA WATER CENTER
AND PEPSICO

T4

Convenor: **PepsiCo**Co-Convenor: **CWC**

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Panelists will discuss food and beverage company initiatives to understand and manage supply chain climate risk. Examples include a project by the Columbia Water Center and PepsiCo, focused on building a global capacity to forecast near-term climate patterns and water availability in agricultural sourcing areas, as well insights from AB InBev.

Mitigating Global Climate Change Risks in Food and Beverage Supply Chains

17:45 Welcome and Opening Remarks.

- ▶ Mr. Dan Bena, PepsiCo

17:50 Short Video.

17:55 Ms. Paulina Concha Larrauri, CWC

18:00 Ms. Liese Dallbauman, PepsiCo

18:05 Mr. John Rogers, Anheuser-Busch InBev

18:10 Panel Discussion.

Moderator: Mr. Dan Bena, PepsiCo

- ▶ Ms. Paulina Concha Larrauri, CWC

- ▶ Ms. Liese Dallbauman, PepsiCo

- ▶ Mr. John Rogers, Anheuser-Busch InBev

18:25 Q&A.

18:45 Close of Side Event.

OIL AND WATER DON'T MIX:
PANEL DEBATE – EMBEDDING
WATER MANAGEMENT IN OIL
AND GAS

K21

Convenor: **IPIECA**Co-Convenor: **CI**

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The main focus of this session will be a panel debate, moderated by CI and with panellists from IPIECA member companies. The panel will explore how the oil and gas industry is proactively and collectively managing water related potential risks and opportunities, including some of the challenges it faces.

17:45 Welcome and Opening Remarks.

- ▶ Mr. Alistair Wyness, BP
- ▶ Dr. John Matthews, CI

18:00 Panel and Audience Discussion.

Chair and Facilitator: Dr. John Matthews, CI

- ▶ Mr. Alistair Wyness, BP
- ▶ Mr. Alfio Mianzan, Shell
- ▶ Ms. Kirsten Thorne, Chevron

18:45 Close of Side Event.

INTERACTIVE WORKSHOP
POSTER SESSIONExhibition
Hall

The posters exhibited during 2014 World Water Week follow the themes of the eight the workshops. They will be on display in the exhibition hall during the cause of the week.

The posters are displayed electronically on interactive screens in the poster exhibition area.

On Tuesday, the poster session will feature the posters of the following workshops:

- ▶ Water, Energy and Urban Development: The Potential for Integrated Approaches
- ▶ Mitigation and Adaptation Measures for Climate Change: How to Converge over Energy and Water
- ▶ Integrated Water and Energy Policy and Governance

You will also have the opportunity to view the posters of this years Stockholm Junior Water Prize finalists.



STOCKHOLM INDUSTRY WATER AWARD

"MOST PROGRESSIVE WATER UTILITY IN AFRICA" WINS 2014 STOCKHOLM INDUSTRY WATER AWARD

eThekweni Water & Sanitation, a part of Durban Municipality in South Africa, is the 2014 winner of the Stockholm Industry Water Award, for its transformative and inclusive approach to providing water and sanitation services.

"This recognition reflects the work of our whole team over the past 22 years and is a tremendous honour for all of us here in Durban," says Neil Macleod, head of eThekweni Water and Sanitation.

In the past 14 years, 1.3 million additional people in greater Durban have been connected to piped water and 700,000 people have been provided with access to toilets. In respecting the constitutional right to water while maintaining financial sustainability, access to basic water supply and sanitation is provided at no cost to poor families, while higher levels of service and consumption are charged at full cost. The open approach to experimenting and piloting new solutions across both technical and social aspects of service delivery has made eThekweni a forerunner in the world of utility-run services.



Photo: eThekweni Water and Sanitation

"eThekweni has championed the approach to provide sufficient water to sustain human life, as expressed in the South African constitution, now embedded in national policy. The methods used and results achieved by eThekweni Water and Sanitation serve as a sterling example for the many communities worldwide facing similar challenges"

Stockholm Industry Water Award Jury

NOMINATE FOR THE 2015 STOCKHOLM INDUSTRY WATER AWARD

www.siw.org/prizes/stockholmindustrywateraward

Deadline is November 15, 2014.

Stockholm **INDUSTRY**
WATER AWARD

WEDNESDAY September 3

FULL DAY

Workshop	Convenors	Co-Convenors	Room	Page
Integrated Water and Energy Policy and Governance	SIWI	GWP, IUCN and Ministry of Energy and Water Resources, Republic of Tajikistan	K16/ K17	
Mitigation and Adaptation Measures for Climate Change: How to Converge over Energy and Water	SIWI	AGWA, WBCSD and UNFCCC	T6	
Water, Energy and Urban Development: The Potential for Integrated Approaches	SIWI	UN-Habitat, GlashusEtt and UNOSD	T3	

MORNING • 09:30-12:30

Seminars	Convenors	Co-Convenors	Room	Page
Corporate Water Stewardship: Leveraging Collective Action in the Agricultural Supply Chain	UNGC CEO Water Mandate	—	T4	
Energy and Water: A Producers Perspective	E.ON, Fortum, SEA, SIWI and SWH at SIWI, Vattenfall	—	K21	
Eye on Asia: Vitality High and Energy Low – Critical Challenges for East Asia	ADB	BuZa, ICIMOD, ICRAF, SIWI, UNESCO-IHP, WRI and WWF	T2	
Global Choke Point: On the Front Lines of the Water Food Energy Crisis	Circle of Blue	Wilson Center	T5	
Innovations in Financing Access to Water and Energy for the Poor – Using Output-Based Aid (OBA)	GPOBA and WB	—	K22/ K23	
Streamlining Strategies for Humanitarian Aid in the WASH Sector	German WASH Network and AA	FDFA, SWA, SuSanA and UNICEF	K11	
World Water Day 2015: Water and Sustainable Development	UN-Water	Cap-Net UNDP, GWP and UNDP	K2	
Young Professionals Shaping the Post-2015 Agenda	SIWI and WYN	ADB	T1	

LUNCH • 12:45-13:45

Side Events	Convenors	Co-Convenors	Room	Page
A Catchment-Based Approach to Water Stewardship	ICMM	—	K22/ K23	
Eye on Asia: India's Power for Irrigation Challenge	ADB	ICIMOD, ICRAF, SIWI, UNESCO-IHP, WRI and WWF	T2	
Producing Impactful Publications that Encompass the Water and Energy Nexus	Elsevier	—	T1	
Water Benefit Certificates – Mobilising Capital for Sustainable Water Projects	First Climate Markets AG and GSF SDC	—	T4	
Water Diplomacy: Harnessing Foreign Policy for Conflict Prevention and Regional Integration	adelphi and SIWI	AA	K21	

Photo: iStock

Seminars	Convenors	Co-Convenors	Room	Page
Bridging Water and Energy Service Delivery with Mobiles and Information Technology	GSMA and IRC	–	K21	
Exploring the Added-Value of the Water-Energy-Food Nexus	AEii, DIE, FAO and SIWI	–	T3	
Eye on Asia: Water For Everyone – Critical Upstream-Downstream and for South Africa and South-East Asia	ADB and UNESCO-IHP	DGIS, FAO, ICIMOD, ICRAF, SDC, SIWI, WRI and WWF	T2	
From Faecal Sludge to Fuel: Safe Sanitation with Business Opportunities	Eawag and Sandec	CNSS, DWA, Gates Foundation, GIZ, GTO, HKR, MUK, NMBU, NWP, SEI, SuSanA, TED-Lesotho, UKZN and WB	K22/ K23	
From Idea to Success: The Way of the Entrepreneurs	SIWI	–	T1	
Integrating Water Priorities and Perspectives in the Americas	ANEAS and CONAGUA	ABDIB, CAF, EWRI, GWP, IMTA, UNESCO, WB and WWC	T5	
Nexus in a Transboundary Context: Building Partnerships to Bridge Cooperation	IUCN and SIWI	UNECE	K2	
UN-Water Stakeholder Dialogue: Water Energy and Food-Nexus and the Post-2015 Development Agenda	UN-Water	BMZ, BMUB, GIZ, UNW-DPC, UNW-DPAC and UNU	K11	
Water Linkages to Coal Fired Energy Production: Shaping the Water and Energy Future	BGR and WRI	China Water Risk, HSBC and ADB	T4	

Side Events	Convenors	Co-Convenors	Room	Page
Combining Water Footprint and Water Risk for Improved Water Stewardship	GDF SUEZ	WRI, WULCA and Quantis	T4	
Competing Water Claims: Indigenous People, Mining and Hydraulic Infrastructure Development	WGF at SIWI	Justicia Hidrica	T3	
Energy and Water Use Efficiency: Key to Cope with Climate Change	CAREC	GIZ	K16/ K17	
The Water Food Energy Nexus: Insights into Resilient Development	WWF	SABMiller	K22/ K23	
Water-Energy Strategies in Critical, but Threatened, River Basins	AUSA, USWP and USIP	GU, ISSA, NDU, The Stimson Center and UNU-INWEH	K24	



INTERACTIVE WORKSHOP POSTER SESSIONS IN THE EXHIBITION HALL. Monday, Tuesday and Wednesday, 17:45-18:45.



STOCKHOLM JUNIOR WATER AWARD CEREMONY.

This year the award ceremony takes place at Grand Hôtel, read more on page 139.



FOOD & DRINKS INCLUDED

PROGRAMME

09:00 Introduction.

- Prof. Peter Rogers, Harvard University, USA

Addressing Policy, Legal Frameworks

09:05 Water and Energy Integration: It is More Than Nexus.

- Ms. Daryl Fields, WB

09:25 Challenges in Reform of Institutions for Better Coordination of Water and Energy Sector.

- Mr. Sulton Rahimov, Ministry of Energy and Water Resources, Republic of Tajikistan

09:40 Changing Water Consumption Patterns Alter the Course of Governance in Zambezi River Basin.

- Ms. Belinda Petrie, OneWorld Sustainable Investments

09:55 Discussion.

Moderator: Prof. Peter Rogers, Harvard University, USA

10:30 Coffee Break.

11:00 The Experience of Energy Utility in Integrated Water and Energy Governance.

- Mr. Jean Comby, EDF

11:20 Appraising Context Vulnerability of Isolated Water and Energy Governance in Nigeria.

- Dr. Joachim Ezeji, USAID/SUWASA

11:35 Energy Pricing and Water Services.

- Mr. Godfrey Chibulunje, EWURA

11:50 Poster Presentation.

- Ms. Alicia Stella Raffaele Vázquez, Departmental Government of Montevideo

12:00 Discussion.

12:25 Conclusions of Morning Sessions.

12:30 Lunch.

Governance as Catalyst for Cooperation in Water and Energy

14:00 Introduction.

- Chair: Dr. James Dalton, IUCN

14:05 Broadening the Lens – Regional Perspective on Water and Energy Integration in SADC.

- Ms. Barbara Schreiner, Pegasys Institute, South Africa

14:25 Water and Energy as a Catalyst for Middle East Peace.

- Mr. Nader Khateeb, Friends of the Earth

14:40 Poster Presentations.

- Mr. Dimitris Mentis, KTH, Sweden

15:00 Discussion.

- Chair: Dr. James Dalton, IUCN

15:30 Coffee Break.

16:00 Panel Discussion.

Moderator: Ms. Angela Klauschen, GWP

- Ms. Daryl Fields, WB

- Dr. Vadim Sokolov, Scientific Information Centre of Interstate Committee for Water Cooperation, Uzbekistan

- Ms. Alicia Stella Raffaele Vázquez, Departmental Government of Montevideo, Uruguay

- Mr. Jean Comby, EDF

17:00 Conclusions and Recommendations.

- Prof. Peter Rogers, Harvard University, USA
- Ms. Olimar Maisonet-Guzmán, UN MGCY

17:30 Close of Workshop.

PROGRAMME

09:00 Introduction to Workshop.
► Ms. Karin Lexén, SIWI.

Converging Mitigation and Adaptation over Energy and Water – Can it be Done

09:05 Lining Up with the Seminar “Water and Energy in Global Climate Policy. How to Increase Coherence and Ensure Effectiveness” and the IWA Water, Energy and Climate Conference.

► Ms. Anna Forslund, SIWI

► Ms. Katharine Cross, IWA

09:10 Turning Policies into Projects: Envisioning the Future of Climate-Resilient Energy.

► Prof. Mark Fletcher, Arup, UK

09:25 Deep Uncertainty in Big Investments: Do We Know How to Integrate Robust Adaptation into Mitigation?

► Dr. Casey Brown, College of Engineering, Department of Civil and Environmental Engineering, University of Massachusetts Amherst, USA

09:40 Long-Term Water Requirements for Energy Generation: An Analysis of the Shared Socioeconomic Pathways.

► Mr. Markus Bonch, Potsdam Institute for Climate Impact Research

09:55 Balancing Mitigation and Adaptation Hydropower Constraints in North America.

► Dr. Eugene Z. Stakhiv, US Army Corps of Engineers, USA

10:20 Poster Presentations.

► Mr. Mohamed Abbas, Ministry of Water Resources and Electricity, Sudan

► Dr. Santosh Deshmukh, Jain Irrigation Systems Ltd, India

10:25 Discussion.

Chair: Ms. Xianfu Lu, UNFCCC

10:30 Coffee Break.

Policy for Converging Mitigation and Adaptation over Energy and Water

11:00 Introduction.

► Dr John Matthews, AGWA

11:05 Perspectives from Nepal.

► Dr. Krishna Chandra Paudel, Secretary for Science, Technology and Environment, Nepal

11:20 Laying the Foundations for a Green and Climate Resilient Development.

► Mr. Sahele Tamiru Fekede, Ministry of Water Irrigation and Energy, Ethiopia

11:35 Strategies Adapted for Reduction of Energy Consumption in Drinking Water Supply and Mitigation of Climate Change.

► Mr. Indra Vijitha Warnakula Ediriweera, National Water Supply and Drainage Board, Sri Lanka.

11:50 Electricity Generation, Cooling Water Use and Pathways to 2050: Results and Methodological Insights from a UK Study.

► Mr. Edward Byers, Newcastle University.

12:05 Poster Presentations.

► Dr. Marianela Fader, IMBE

► Dr. Daniel Leavell, The Ohio State University, USA

12:10 Discussion.

Chair: Dr. John Matthews, AGWA

12:30 Lunch

Business Opportunities for Converging Mitigation and Adaptation over Energy and Water

14:00 Introduction.

► Mr. Joppe Cramwinckel, WBCSD

14:05 Business: A Key Player to Pressure the Happy Marriage of Energy and Water under Climate Change Conditions.

► Mr. Philippe Joubert, Global Electricity Initiative

14:20 How the Power Sector is Building Resilience to Climate Change.

► Ms. Anne Bolle, Statkraft, Norway

14:35 Energising the Drops: Towards a Holistic Approach to Carbon and Water Footprints.

► Mr. Paul McNeillis, Anthesis Consulting

– Incorporating Best Foot Forward

14:50 Energy Efficiency in Water Pumping in Jordan.

► Mr. Ronald Hagger, GIZ

15:05 Poster Presentation.

► Dr. Narendra Tyagi, Formerly, ICAR

► Prof. Rifaat Abdel Wahaab, HCWW

15:10 Discussion.

Chair: Dr. Phil Graham, SMHI

15:30 Coffee Break.

Roundtable Discussion on Converging Mitigation and Adaptation over Energy and Water

16:00 Opening Remarks.

► Mr. Joppe Cramwinckel, WBCSD

16:05 Introduction.

► Ms. Holly Young, The Guardian

► Ms Karin Lexén, SIWI

Chair: Mr. Joppe Cramwinckel, WBCSD

Moderator: Ms. Holly Young, The Guardian

► Dr. Fred Boltz, Rockefeller Foundation, USA

► Ms. Kathleen Dominique, OECD

► Mr. Philippe Joubert, GEI

► Ms. Angela Churie Kallhauge, SEA

► Ms. Xianfu Lu, UNFCCC

► Mr. Niels Vlaanderen, Ministry of Infrastructure and the Environment and Ministry of Foreign Affairs, the Netherlands

16:10 Moderated Round Table Discussions.

16:45 Panel Discussion.

17:30 Close of Workshop.

PROGRAMME

09:00 Welcome and Introduction.

- Mr. Bert Diphorn, UN-Habitat

Integration in Policy and Planning

09:05 Inclusive Approaches in eThekweni Water and Sanitation.

- Mr. Neil Macleod, eThekweni Water and Sanitation

09:20 Water Recycling and Reuse in the Urban Environment in Sydney, Australia: Energy Consumption and Environmental Impact, Where do We Draw the Line?

- Mr. Olof J. Jonasson, University of Technology Sydney, Australia

09:35 Morgenstadt: A Multi-Disciplinary Approach to Urban Systems Research.

- Dr. Felix Tettenborn, Fraunhofer Institute for Systems and Innovation Research, Germany

09:50 Panel Discussion.

- Mr. Neil Macleod, eThekweni Water and Sanitation
 - Mr. Östen Ekengren, IVL Svenska Miljöinstitutet, Sweden
 - Mr. Will Sarni, WBCSD, Deloitte Consulting LLP (tbc)
 - Mr. Olof J. Jonasson, University of Technology Sydney UTS/Water Sensitive Solutions, Australia
 - Dr. Felix Tettenborn, Fraunhofer Institute for Systems and Innovation Research ISI
- Moderator: Dr. Marianne Kjellén, SIWI

10:25 Session Wrap-Up.

- Mr. Bert Diphorn, UN-Habitat

10:30 Coffee Break.

Integrating Water and Energy in Urban Infrastructure

11:00 Introduction.

- Mr. Jong-Soo Yoon, UNOSD

11:05 Fostering Dialogue for Integrated Urban Water Management.

- Dr. Faraj El-Awar, UN-Habitat

11:20 A Transactions Approach to Estimate Regional Dependencies between Urban Areas and Water Resources in Colombia.

- Mr. Hector Angarita, Pontificia Universidad Javeriana.

11:35 Used Water Driven Biorefineries, the Foundation for Urban Sustainability.

- Prof. Kartik Chandran, Columbia University.

11:50 Integrated Sewage Heat Recovery.

- Mr. Serge De Ridder, VIVAQUA.

12:05 Panel Discussion.

Moderator: Mr. Francois Brikké, GWP

- Dr. Faraj El-Awar, UN-Habitat
- Mr. Hector Angarita, Pontificia Universidad Javeriana.
- Prof. Kartik Chandran, Columbia University
- Mr. Serge De Ridder, VIVAQUA

12:20 Session Wrap-Up.

- Mr. Francois Brikké, GWP

12:25 Introduction: Field Visit to Hammarby Sjöstad.

- Mr. Erik Freudenthal, GlashusEtt, Sweden

12:30 Lunch

Field Visit – The Real Case of Hammarby Sjöstad

14:00 Bus Ride with Introduction/Background to Field Visit.

- Mr. Erik Freudenthal, GlashusEtt, Sweden

14:25 Walking Tour of Hammarby Sjöstad

- Mr. Erik Freudenthal, GlashusEtt, Sweden

15:10 Wrap-Up with Question and Answer Session at GlashusEtt.

- Mr. Erik Freudenthal, GlashusEtt, Sweden

15:15 Coffee Break.

Integrated Approaches in Urban Development

15:30 Welcome.

- Prof. Kalanithy Vairavamoorthy, University of South Florida, USA

15:35 Speed Talks – Poster Interviews.

Moderator: Dr. Marianne Kjellén, SIWI.

16:00 Sustainability of the Urban Area Jenfelder Au by Implementing the Integrated Wastewater and Energy Generation Concept Hamburg Wasser Cycle®.

- Ms. Maika Hartmann, Hamburg Wasser, Germany

16:15 Panel Discussion.

Moderator: Prof. Kalanithy Vairavamoorthy,

- University of South Florida, USA
- Ms. Maika Hartmann, Hamburg Wasser, Germany
- Mr. Allan Larsson, leader of a citizens' initiative. Hammarby Sjöstad
- Mr. Francois Brikké, GWP
- Mr. Jong-Soo Yoon, UNOSD
- Mr. Bert Diphorn, UN-Habitat

16:55 Session and Workshop Wrap-Up.

- Prof. Kalanithy Vairavamoorthy, University of South Florida, USA

17:00 Close of Workshop.

17:05 Bus Departs from GlashusEtt.

17:30 Arrival at Stockholmsmässan.

YOUNG PROFESSIONAL

Young Professionals Shaping the Post-2015 Agenda

Room
T1

The coming generation of practitioners and decision makers will be in charge of achieving the Post-2015 development goals. As future leaders, they need to be empowered and mobilised to take the lead. Based on failures in implementing the MDGs, we share ideas for young professionals to speak up and act.

When: 09:00-12:30

Guided Tours of the Exhibition

Start
SIWI
Booth

Young professionals will have the opportunity to join guided tours of the exhibition to get to better know the different organisations that are present at the World Water Week.

Booking at World Water Week Secretariat in advance is required.

When: 13:00 & 17:00

From Ideas to Success: The Way of the Entrepreneurs

Room
T1

The seminar aims to inspire young people to get engaged in the world around them, be it water issues, human rights, environmental problems, political or grass root movements or something else. Hear from entrepreneurs how you go from an idea to implementation and what it takes to succeed in doing so.

When: 14:00-17:30

An Introduction to Scholarly Publishing: Getting Started in Journals and Books

Room
T1

This session provides an overview of scholarly publishing, including the publishing cycle, peer review process, and the role of journals and books in scientific research. We will discuss specific publishing opportunities available for early career researchers and will cover the basics of submitting a paper or proposal and getting it noticed.

When: 12:45-13:45

The 2014 World Water Week in Stockholm features an entire day of activities aimed at those at the start of their careers. During the Young Professionals' Day, we have opened the doors to young enthusiasts between 16 and 35 years old who will get free access to the Young Professionals activities.

CV Clinic – Have your CV Checked for Success!

Young Prof. Booth

Throughout the day, young professionals will have the opportunity to get their CV analysed by professionals and received recommendations on how to improve it.

When: 09:00-17:30

Ideas' Marketplace

Exhibition Hall

True to its spirit, the World Water Week will host an Ideas' Marketplace at the Exhibition area. The Ideas' Marketplace will be dedicated to ideas and projects seeking funding and/or partnerships.

When: All Week

Promoting Solar Bottle Bulbes for Rural Lighting in Southern Uganda

► Agnes Namuli, Uganda

EcoSmartHydroTM

► Adam Atkinson-Lewis, USA

Fog Harvesting Renovation for Reinforcing Livelihood Security of Vulnerable Communities in Yemen

► Walid Ali, Yemen

Generate Potable Drink Water from Humidity of the Air

► Cleide Wanderrosky, Sweden/Brazil

Groundwater Monitoring Plan

► Felipe Nicolás Tomasevich, Argentina

Nordic Center for Blue Green Solutions

► Zahra Kalantari, Sweden

Versatile Point-of-Consumption Water Treatment Bottle

► Tobias Barnard, South Africa

IDEAS'

MARKETPLACE

NOTES

WEDNESDAY • 09:00-12:30

**CORPORATE WATER STEWARDSHIP:
LEVERAGING COLLECTIVE ACTION IN THE
AGRICULTURAL SUPPLY CHAIN**

T4

Convenor: **UNGC CEO Water Mandate**

Increasingly, businesses recognise that their greatest water-related risks are often outside of their direct control and often reside in their supply chain. Though companies are beginning to understand water-related supply chain risk, action to meaningfully address these risks is still limited. Further, for many, the greatest water-related risks stem from their agricultural supply chain which are often “far upstream” and require engaging with entities with which companies may have the little direct contact and influence, as well as the least capacity to take mitigation measures.

Nevertheless, many companies are taking action by implementing sustainable agriculture programs, including water risk management strategies, through their own networks or by participating in industry initiatives such as the Sustainable Agriculture Initiative. Realising that further collective action is needed, companies are looking to engage and align efforts with a range of stakeholders to identify opportunities, conduct pilots, and up-scale solutions.

This seminar will feature an interactive multi-stakeholder panel that will share current best-practices in promoting collective action in sustainable agriculture initiatives, exhibit corporate case studies and lessons learned, and explore the contours for how corporate water stewardship of this ilk can further promote good practice and integrate with water-related sustainable agriculture programs led by others.

09:00 Welcome and Opening Remarks.

- ▶ Mr. Gavin Power, UN Global Compact
- ▶ Mr. Rob Greenwood, Ross Strategic Ltd.

09:10 Understanding the State of Play Regarding Corporate Water Stewardship in Agricultural Supply Chains.

Scene Setter:

- ▶ Mr. Jason Morrison, Pacific Institute
- ▶ Mr. John Rogers, Anheuser-Busch InBev
- ▶ Ms. Ellen Silva, General Mills
- ▶ Mr. Chris Brown, Olam International
- ▶ Mr. Greg Koch, The Coca-Cola Company
- ▶ Ms. Lindsay Bass, WWF

10:00 Panel Discussion: Exploring Opportunities and Challenges Relating to Water Stewardship Collective Action in Agricultural Supply Chains.

10:25 Q&A.

10:45 Coffee Break.

11:15 Facilitating Better Data and Information to Manage Water Risks in Agricultural Supply Chains

- ▶ Ms. Cate Lamb, CDP
- ▶ Mr. Paul Chandler, Principles for Responsible Investment
- ▶ Mr. Carlo Galli, Nestlé
- ▶ Mr. Inge Huijbrechts, Carlson Rezidor Hotel Group

11:50 Q&A.

12:15 The Road Ahead: Innovative Tools and Collaborations to Further Supply Chain Action.

- ▶ Mr. Jason Morrison, Pacific Institute

12:25 Next Steps and Concluding Remarks.

- ▶ Mr. Gavin Power, UN Global Compact

12:30 Close of Seminar.

ENERGY AND WATER – A PRODUCERS PERSPECTIVE

K21

Convenors: **E.ON, Fortum, SEA, SIWI, SWH at SIWI and Vattenfall**

The seminar would examine water and energy perspectives from the side of the producer. As part of the work performed by the Swedish Water House cluster group on that subject, the seminar would bring together the biggest energy producers on the Swedish market to present ongoing work on sustainability, how to address latest trends and challenges in the ever changing global energy mix as well as efforts in expanding renewable energy sources, aspects of energy markets and interactions with decision-making functions influencing energy production opportunities.

The seminar would stimulate discussions bridging the gap between water experts and energy producers, looking at common definitions but also to challenge the way both communities relates to concepts within their traditional fields. Potential outcomes could be a firmer understanding of what motivates energy producers in the current world order and what strategic tools and incentives are needed to potentially change current practices.

09:00 Welcome and Opening Remarks.

- Mr. Andreas Lindström, SIWI

09:05 Presentation of the Seminar Structure and Ambitions.

- Dr. Jakob Granit, SEI

09:15 Understanding the Links; Energy Generation – Water Resources and the Environment

- Mr. Gustaf Olsson, Lund University, Sweden

09:30 Societal Good vs. Societal Good – Perspectives on Energy Generation and Perceived Conflicts.

- Mr. Jens Bjöörn, Fortum, Sweden

10:10 Target Conflicts and Political Will, How Can Priorities Be Aligned?

- Mr. Johan Tielman, E.ON, Sweden

10:30 Coffee Break.

10:50 Energy Politics; Understanding Decision-Making Affecting Energy Planning and Choices.

11:20 The Role of Water in Today's and Tomorrow's Sustainable and Competitive Energy Systems.

- Mr. Christer Ljunggren, Vattenfall, Sweden

11:40 Aspects of a "Sun Economy".

- Mr. Tobias Persson, SEA

12:00 Panel Discussion.

Moderator: Dr. Jakob Granit, SEI

- Mr. Gustaf Olsson, Lund University, Sweden

- Mr. Jens Bjöörn, Fortum, Sweden

- Mr. Johan Tielman, E.ON, Sweden

- Mr. Christer Ljunggren, Vattenfall, Sweden

- Mr. Tobias Persson, SEA

12:30 Close of Seminar.

NOTES

WEDNESDAY • 09:00-12:30

GLOBAL CHOKE POINT: ON THE FRONT LINES OF THE WATER-FOOD-ENERGY CRISIS

T5

Convenor: **Circle of Blue**Co-Convenor: **Wilson Center**

Three colliding trends – declining freshwater reserves, uncertain grain supplies, and booming energy demand – are disrupting economies, governments and environments around the world. Unlike food or energy, water supplies are finite. This is especially true in the era of climate change, when more severe droughts and floods tighten the competition for water by food and energy. Complex challenges demand front-line context, integrated analysis and innovative solutions.

Research teams from the Wilson Center and Circle of Blue are reporting from China, Australia, United States, India, MENA and the other front lines of the world's water-food-energy crisis. The event is presented in three integrated chapters: Water – One of the most critical economic and environmental questions nations and regions must answer is how to develop new supplies of energy – like shale gas – and grain across a landscape where moisture is limited and confrontations over water are increasing.

Thirsty Energy – Dwindling water supplies are the primary impediment to China's soaring coal production, forming a choke point that threatens to upend the country's economic progress. Food – The confrontation over water, food and energy produces choke points that ripple around the globe's food markets and supplies.

09:00 Welcome and Opening Remarks.

► Mr. J. Carl Ganter, Circle of Blue

Water-Food-Energy Nexus in Context: India, China and the United States

09:05 On the Frontlines of the Water-Food-Energy Nexus.

► Mr. J. Carl Ganter, Circle of Blue

09:15 Choke Point: India.

► Mr. Keith Schneider, Circle of Blue

09:40 Choke Point: China.

► Dr. Jennifer Turner, Wilson Center

10:05 Choke Point: Index.

► Mr. J. Carl Ganter, Circle of Blue

10:30 Coffee Break.

Hands On Media Workshop: Communicating the Nexus

11:00 Brief remarks and Instructions.

► Mr. J. Carl Ganter, Circle of Blue

11:10 Concurrent Breakout Sessions, Media Training.

12:00 Reports from Groups.

12:15 Q&A.

► Mr. J. Carl Ganter, Circle of Blue

► Mr. Keith Schneider, Circle of Blue

► Dr. Jennifer Turner, Wilson Center

12:30 Close of Seminar.

INNOVATIONS IN FINANCING ACCESS TO WATER AND ENERGY FOR THE POOR – USING OUTPUT-BASED AID (OBA)

K22/
K23

Convenors: **GPOBA and WB**

The event will have three main sections. The first one will introduce Output-Based Aid (OBA), its definition, core concepts, and purpose, along with the work of the Global Partnership on Output-Based Aid (GPOBA) to pilot and mainstream OBA approaches to extend basic infrastructure and social services to the poor.

The second section will present specific projects in water, sanitation, and energy, so the audience can see the various ways the OBA mechanism has been applied and implemented in these sectors. Among the 38 projects in GPOBA's portfolio, 25 have been for access to water supply and sanitation (on-site and sewerage

systems) and energy projects (grid extension, PV solar home systems, natural gas), with an additional 10 in the project pipeline for both sectors. This section will present the different approaches that these projects have used in several countries in Africa, Asia, Middle East/North Africa, and Latin America. In addition, the section will present the results and lessons learned from the implementation of these projects.

The third section will be an open discussion for the audience to share their project ideas and provide advice about how to design and implement these approaches, or identify potential projects or partnerships.

09:00 Welcome and Opening Remarks.

Introduction to GPOBA and OBA

► Ms. Carmen Nonay, GPOBA

09:05 The Mission and Experience of the Global Partnership of Output-Based Aid (GPOBA).

09:10 What is Output-Based Aid?

09:20 Q&A.

Experience of OBA in the Water and Sanitation Sector

► Ms. Ana Silvia Aguilera, GPOBA

09:30 Overview of the Application of OBA in Water and Sanitation.

09:40 Case Study: The Honduras OBA Facility for Water and Sanitation Services – A Selection Framework to Allocate Subsidy Funds to Public and Private Implementers.

09:55 Results and Lessons Learned from OBA in the Water and Sanitation Sector.

10:10 Q&A.

10:30 Coffee Break.

Experience of OBA in the Energy Sector

11:00 The Role of OBA in Scaling Up Grid and Off-Grid Electrification for Poor Households.

11:10 Case Study: Renewable Energy Development Program in Bangladesh – Solar Energy for Irrigation.

11:25 Results and Lessons Learned from OBA in the Energy Sector.

11:40 Q&A.

OBA Knowledge Exchange

12:00 Bring Your Project Ideas to Discuss and Explore with OBA Experts!

12:30 Close of Seminar.

WEDNESDAY • 09:00-12:30

STREAMLINING STRATEGIES FOR HUMANITARIAN AID IN THE WASH SECTOR

K11

Convenors: **AA and German WASH Network**Co-Convenors: **FDFA, SWA, SuSanA and UNICEF**

Water, sanitation and hygiene (WASH) and the interconnected energy and food security aspects are essential ingredients for human survival, particularly during or after the occurrence of natural or man-made disasters. Fast and effective humanitarian aid – with limited resources – requires quick but reliable needs assessments and well-coordinated collaboration among all actors.

Although humanitarian aid has a reputation of “reacting”, many conflicts or disasters can be foreseen, as they occur in predictable patterns. Increasing self-help capacity of communities and preparedness of affected nations demands a more strategic approach to humanitarian aid, as well as quality management and innovation. Several governments have or are in the process of

developing strategies for humanitarian aid in the WASH sector.

Together with the seminar participants the strengths and weaknesses of existing humanitarian aid strategies will be discussed and boiled down to specific recommendations in support of on-going national strategy development processes (e.g. Germany). Dialogue is to be fostered between governments and non-state-actors in order to specifically increase coordination and collaboration, building upon the 2013 seminar called “Aid Effectiveness in the WASH Relief to Development Transition”, which called for actively drawing more humanitarian WASH actors to Stockholm than have been present in past years.

09:00 Introduction: Streamlining Strategies for Humanitarian Aid in the WASH Sector.

► Mr. Thilo Panzerbieter, German WASH Network

09:10 Focus Areas of the New German Humanitarian WASH Strategy.

► Dr. Eltje Aderhold, AA

Input Presentations – Linking Policy Makers and Practitioners

09:25 WASH Cluster Coordination from Different Perspectives. Status and Challenges of the WASH Cluster Coordination Mechanism.

► Dr. Georg Nothelle, CARE Germany
► Mr. Franck Bouvet, UNICEF

Government in the Driving Seat of WASH

Coordination: Insights and Challenges – South Sudan.

► Mr. Peter Mahal Dhieu Akat, Ministry of Electricity, Dams, Irrigation and Water Resources South Sudan
Current Challenges from the Perspective of an INGO in a WASH Cluster Lead Position – Zimbabwe.

► Mr. Ajay Paul, Welthungerhilfe
Experiences with Large-Scale Early Recovery WASH interventions in the Philippines.
► Ms. Simone Klawitter, UNICEF

09:55 New Trends Donor Strategies Need to Take into Account. Current Trends and Guiding Principles in Humanitarian WASH Donor Strategies of Switzerland.

► Mr. Marc-Andre Bünzli, Federal Department of Foreign Affairs, Switzerland
ECHO's Strategic Contribution to Improving Humanitarian WASH.

► Mr. Daniel Clauss, ECHO

How Can Donor Policies Support Innovation for Humanitarian Sanitation Solutions?

► Mr. William Carter, IFRC

► Mr. Jan Spit, SuSanA

10:20 Looking at WASH Relief More Holistically. How Can Government-Led National WASH Sector Platforms be Strengthened?

► Mr. David Tsetse, UNICEF

► Mr. Muyatwa Sitali, SWA

10:30 Coffee Break.

World Café

11:00 Table Discussions.

Table 1: The WASH Cluster – Where is it Needed? What Must it Fulfil?

► Dr. Georg Nothelle, CARE Germany

► Mr. Franck Bouvet, UNICEF

► Ms. Simone Klawitter, UNICEF

► Mr. Ajay Paul, Welthungerhilfe

Table 2: Trend or Hype? – Focus Areas of WASH Relief Strategies.

► Dr. Eltje Aderhold, AA

► Mr. Marc-Andre Bünzli, Federal Department of Foreign Affairs, Switzerland

► Mr. Daniel Clauss, EU Humanitarian Aid and Civil Protection department

Table 3: Looking at WASH More Holistically within a Relief Setting.

► Mr. Muyatwa Sitali, WSP

► Mr. David Tsetse, UNICEF

► Mr. Arno Coerver, Malteser International

11:50 Reporting Back from the Tables.

12:05 Panel Discussion.

12:30 Close of Seminar.

WORLD WATER DAY 2015: WATER AND SUSTAINABLE DEVELOPMENT

K2

Convenor: **UN-Water**

Co-Convenors: **Cap-Net UNDP, GWP and UNDP**

Each year, World Water Day highlights a specific aspect of freshwater. Under the theme 'Water and Sustainable Development', the year 2015 provides an important opportunity to consolidate and build upon the previous World Water Days to highlight water's role in the sustainable development agenda.

UN-Water supports the World Water Day campaign and sets the theme each year. At the World Water Week 2014, UN-Water presents the plan for the World Water Day 2015 campaign, which is coordinated by UNDP with the support

of WWAP, UNESCO, HABITAT, UNEP, World Bank Group and UN-DESA.

Participants will get an opportunity to learn more about the theme of World Water Day, get the latest update on how the international community perceives water's role in the Post-2015 framework and will be invited to get involved in the campaign. In addition, participants will also discover the logo of the World Water Day 2015.

09:00 Welcome and Opening Remarks.

► Dr. Joakim Harlin, UNDP

09:15 Overview of the 2015 World Water Day Campaign, Presentation and Q&A.

► Ms. Daniella Boström, UN-Water

09:45 The Zaragoza Conference.

Linking World Water Day to the SDG/
Post-2015 Development Agenda.
Presentation and Q&A.

► Ms. Josefina Maetsu, UN-Water DPAC

► Mr. Joakim Harlin, UNDP

10:30 Coffee Break.

11:00 Elements of the Campaign: National Outreach.

► Mr. Steven Downey, GWP

Building Capacity for Sustainable Water Development.

► Mr. Temba Gumbo, Cap-Net UNDP
Celebrating the End of the Water for Life Decade.

► Mr. Reza Ardakanian, UN-Water DPC
Impacting the GA and the Post-2015
Decision-Making.

► Ms. Florence Poppe, UN-Water
Close of Seminar.

12:30

WEDNESDAY • 09:00-12:30

YOUNG PROFESSIONALS SHAPING THE POST-2015 AGENDA

T1

Convenors: **SIWI and WYN**Co-Convenor: **ADB**

There is tremendous motivation among young professionals that combines an all hearted and natural understanding of human rights with openness to creative solutions. With no fear to challenge established institutions and mindsets, the young water professionals are making a statement, commitment and contribution to the future. Young Water Professionals call for solidarity, joint demands, mutual solutions, and access to human rights!

Youth empowerment has actually improved significantly within the major processes on water-related development challenges, both on the political and technical sides. Looking at the failure of implementing the WASH millennium development goals, it is not technical solutions that are lacking, but political commitment in form of finance and governance priorities.

Hence, in this workshop we bring together young professionals to continue crafting the important messages to the upcoming United Nations' General Assembly. It is imperative that we channel our voices and give input to the decision on the Sustainable Development Goals (SDG).

The Youth Forum of the Budapest Water Summit 2013 confirmed young people's responsibility and commitment to contribute to a dedicated goal on water with energy, creativity and enthusiasm. The statement from the forum will be the starting point to develop and specify key challenges.

- 09:00 Welcome and Opening Remarks.
► Ms. Elin Weyler, SWH
- 09:05 Lessons Learnt: The Challenges of Implementation and Keys for Success.
► Prof. John Briscoe, 2014 Stockholm Water Prize Laureate, Harvard University, USA
- 09:25 Insights on WASH on Informal Settlements – Highlight of Key Existing Challenges and Complexities.
► Ms. Amy Leung, ADB
- 09:40 Youth Role in the SDG Process and Introduction of the Budapest Youth Statement.
► Mr. Prabin Rokaya, WYN
- 09:50 Introduction to Roundtable Discussions.
► Mr. Hector Nava, WYN
- Round Table Discussion Themes*
Policy and Legal Barriers, and Way Forward in Promoting WASH in Informal Settlements. Existing Financial Constraints, and Possible Investing Mechanism (Including Micro-Finance).
Public Participation (Participatory Approaches).
- 10:45 Coffee Break.
- 11:15 Panel Report from Roundtable Discussions.
Chair: Mr. Hector Nava, WYN

- 11:30 Panel Discussion.
Moderators: Ms. Marie Sagen, WYN and Ms. Elin Weyler, SWH at SIWI
Policy and Legal Issues.
► Mr. Nicolai Schaaf, SWH
► Ms. Joanna Blossner, Swedish Youth Representative to the UN General Assembly 2014, Sweden
Finance.
► Ms. Amy Leung, ADB
► Mr. Ponce Samaneigo, ADB
Private Sector/Public Utility.
► Mr. Michael Fields, Xylem
► Mr. Jason Wong, PUB Singapore
Non-Governmental Sector.
► Mr. Bart Devos, World Youth Parliament for Water
Local Community.
► Ms. Moa Cortobius, SIWI
► Mr. Himanshu Shekhar, Plan India
- 12:15 Closing Remarks.
► Mr. Prabin Rokaya, WYN
► Ms. Marie Sagen, WYN
- 12:30 Close of Seminar.

WEDNESDAY • EYE ON ASIA • 09:00-17:30 • ROOM T2

SEMINAR • 09:00-12:30

VITALITY HIGH AND ENERGY LOW – CRITICAL CHALLENGES FOR EAST ASIA

Convenor: **ADB**Co-Convenors: **BuZa, ICIMOD, ICRAF, SIWI, UNESCO-IHP, WRI and WWF**

As Asian economies thrive, there is a pressing need for policy-makers to balance demand for water from competing sectors. Water, food and energy security become increasingly critical to sustaining growth, and alleviating these concerns requires new approaches to resource management and innovative thinking to change the current trajectory of increasing water stress and expanding environmental degradation.

Eye on Asia will bring together international and regional specialists to highlight challenges and strategies for addressing emerging water, food and energy security concerns. The Morning Sessions (part 1) will focus on East Asia and the Afternoon Sessions (part 2) on South Asia and South East Asia. Part 1 will

consider the regions' characteristics underlying water distribution and availability, and how climate change amplifies water constraints and surpluses.

Competition for water between energy and agriculture will be examined and concerns about sustainable hydropower and ecosystems and vulnerable rural communities discussed. Progress in adoption of innovative energy and water resources planning will be reviewed and successful technological advances in energy efficiency and clean energy and strategic-level integrated spatial planning approaches to project-specific payment for environmental services and community-based catchment restoration described.

09:00 Welcome and Opening Remarks.

► Mr. Ayumi Konishi, ADB

09:05 Water-Energy Nexus: Dynamics, Challenges and Approaches for Mongolia.

► Vice Minister Mr. Tulga Buya, Ministry of Environment & Green Development, Mongolia

09:20 Water-Energy Nexus: Dynamics, Challenges and Approaches for China.

09:45 Panel Discussion.

10:35 Energy for Waste-Water Treatment in Xiangyang, PRC.

10:55 Achieving Economic Development within a Water Scarce Context: Challenges in the Mongolian South-Gobi Mining Sector.

► Mr. D. Dorjuseren, 2030 WRG

11:15 Panel Discussion.

11:55 Concluding Remarks.

► Mr. Ayumi Konishi, ADB

12:30 Close of Seminar.

SIDE EVENT • 12:45-13:45

INDIA'S POWER FOR IRRIGATION CHALLENGE

Convenor: **ADB**Co-Convenors: **ICIMOD, ICRAF, SIWI, UNESCO-IHP, WRI and WWF**

Solar energy and irrigation issues and challenges, including use of solar pumping to provide farmers with predictable and reliable electricity and its potential to reduce overconsumption of sub-

sided electricity, promote more efficient water use, and ultimately effectively target several resource challenges will be discussed.

12:45 Agricultural Energy Use in India—The Rationale for Solar.

► Ms. Shannon Cowlin, ADB

12:55 Solar Pumps and South Asia's Water-Energy Nexus: Five Problems-One Solution.

► Mr. Tushaar Shah, IWMI

13:10 Discussion.

13:40 Conclusions.

► Mr. Anthony Jude, ADB

13:45 Close of Side Event.



EYE ON ASIA: WEDNESDAY • 09:00-17:30 • ROOM T2

SEMINAR • 14:00-17:30

WATER FOR EVERYONE – CRITICAL UPSTREAM-DOWNSTREAM AND FOR SOUTH AFRICA AND SOUTH-EAST ASIA

Convenors: **ADB and UNESCO-IHP**Co-Convenors: **DGIS, FAO, ICIMOD, SIWI, SDC, ICRAF, WRI and WWF**

As Asian economies thrive, there is a pressing need for policy-makers to balance demand for water. Water, food and energy (WFE) security become increasingly critical to sustaining growth. These challenges require new approaches to resource management and innovations to change the current trajectory of increasing water stress and environmental degradation. Eye on Asia will highlight challenges and emerging strategies to address WFE security concerns. The Afternoon Session will consider hydropower policies in the socio-economic development process and highlight the need for sound knowledge base to develop energy policies, particularly in transboundary settings. The importance of disciplinary cooperation and connecting science to socio-economic and

political systems will be reviewed, and innovations in energy and water resources planning, technological advances in energy efficiency, clean energy, integrated spatial planning, and payments for environmental services and community-based catchment restoration described. Speakers and panels will discuss underlying water distribution and availability, and how climate change amplifies water constraints and surpluses. Spatial competition for water between energy and agriculture will be examined and sustainable hydropower, ecosystems and vulnerable rural communities discussed. A synthesis of lessons and policy gaps relevant to WFE nexus, benefit sharing and upstream downstream linkages will be developed.

14:00 Welcome and Opening Remarks.

► Ms. Amy Leung, ADB

14:05 Understanding the Water-Energy Nexus from a Mountain Perspective: The Case of Hindu Kush Himalayas – Special Focus on Nepal, Bhutan, and India.

► Ms. Aditi Mukherji, ICIMOD

14:25 Last Chance for Water in the Asian Highlands: Linking Top down and Bottom up Knowledge in Pakistan and Nepal.

► Mr. Jianchu Xu, ICRAF

14:45 Panel Discussion.

15:35 Addressing Water Security Challenges in Asian River Basins under Changing Climate.

► Mr. Anil Mishra, UNESCO-IHP

15:55 Catalysing Sustainable Hydropower for Enhance Livelihoods – Approaches from the Mekong and Amazon.

► Dr. Jian-hua Meng, WWF

16:15 Panel Discussion.

16:55 Concluding Remarks.

► Ms. Amy Leung, ADB

17:30 Close of Seminar.

NOTES

WEDNESDAY • 12:45-13:45

INTRODUCTION

SUNDAY

MONDAY

TUESDAY

WEDNESDAY

THURSDAY

FRIDAY

SOCIAL/AWARDS

GENERAL INFO

A CATCHMENT-BASED
APPROACH TO WATER
STEWARDSHIPK22/
K23Convenor: **ICMM**

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The International Council of Mining and Metals will convene a cross-sector panel of representatives from the mining, energy, NGO and government sectors to discuss their perspectives on the challenges and opportunities of a collaborative catchment-based approach to water stewardship.

- 12:45 Welcome and Opening Remarks.
▶ Mr. Ross Hamilton, ICMM
- 12:50 Panel Speaker.
▶ Mr. Stuart Orr, WWF
- 13:00 Panel Speaker.
▶ Mining Representative
- 13:10 Panel Speaker.
▶ Energy Representative (tbc)
- 13:20 Panel Speaker.
▶ Government Representative (tbc)
- 13:30 Q&A.
- 13:45 Close of Side Event.

WATER BENEFIT CERTIFICATES –
MOBILISING CAPITAL FOR
SUSTAINABLE WATER PROJECTS

T4

Convenors: **First Climate Markets AG, SDC and GSF**

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This side event explores a novel, results based finance mechanism for financing good sustainable water practice in regions of water scarcity or low water quality. Using lessons learned from the carbon market, the panel will discuss the development of the mechanism and its potential.

- 12:45 Welcome and Opening Remarks.
Moderator: Mr. Alexis Morgan, WWF
- 12:50 Launch of the Gold Standard Water Benefit Certificate Standard.
▶ Mr. Brendan Smith, GSF
▶ Dr. Sascha Lafeld, First Climate Markets AG
- 13:25 Panel Discussion and Q&A.
▶ Mr. Brendan Smith, Gold Standard Foundation
▶ Dr. Sascha Lafeld, First Climate Markets AG
▶ Dr. James Dalton, IUCN
▶ Dr. Biksham Gujja, AgSri Agricultural Services
▶ Mr. Aldo Cristiano, Ferrero
- 13:40 Closing Remarks.
▶ Mr. Alexis Morgan, WWF
- 13:45 Close of Side Event.

WATER DIPLOMACY:
HARNESSING FOREIGN POLICY
FOR CONFLICTPREVENTION AND
REGIONAL INTEGRATION

K21

Convenors: **adelphi and SIWI**
Co-Convenor: **AA**

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What contribution can diplomats make to support transboundary water cooperation? And how can such cooperation be leveraged to facilitate wider-ranging regional integration? At this event convened by SIWI, Adelphi, Water Diplomacy Consortium, Stimson and the German Foreign Office, high-ranking policy-makers discuss pragmatic steps to enhance cooperation on shared waters.

- 12:45 Welcome and Opening Remarks.
▶ Mr. Kerry Schneider, SIWI
- 12:48 Setting the Stage with an Introduction to “Strengthening Foreign Policy for Transboundary Waters”.
▶ Dr. Benjamin Pohl, adelphi
- 12:55 Panel Discussion.
Moderator: Dr. Therese Sjömander-Magnusson, SIWI
▶ Dr. Aaron Salzberg, US Department of State
▶ Dr. Hinrich Thölken, AA
▶ Dr. Benjamin Pohl, adelphi
- 13:25 Q&A.
- 13:45 Close of Side Event.

PRODUCING IMPACTFUL
PUBLICATIONS THAT
ENCOMPASS THE WATER
AND ENERGY NEXUS

T1

Convenor: **Elsevier**

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Producing Impactful Publications that Encompass the Water and Energy Nexus will cover article and citation growth at the water and energy nexus, including key topics and trends. The session will also provide an overview of scholarly publishing and journal and book publishing opportunities in this area.

- 12:45 Moderators: Dr. Christiane Barranguet, Elsevier and Ms. Candice Janco, Elsevier
Introduction to Bibliometrics. The Water and Energy Nexus in the Publication Landscape. Main Emerging Topics, Research Trend and Impact.
International Research: Collaboration Landscape. How to Publish your Research Effectively.
- 13:45 Close of Side Event.



WEDNESDAY • 14:00-17:30

BRIDGING WATER AND ENERGY SERVICE DELIVERY WITH MOBILES AND INFORMATION TECHNOLOGY

K21

Convenors: **GSMA and IRC**

Mobile and ICT are fundamentally changing service sectors and how sustainable water and energy are delivered. The energy sector has seen rapid innovation in off- and micro-grid solutions: solar kiosks, pay as you go solar systems by mobile payments, and partnerships with telecom towers. For water, smartphone-based monitoring of services has been embraced by local government NGOs and automated monitoring of water supplies and customer support services are changing the way water is governed.

This session builds on the rapidly growing body of experiences (see synthesis: www.waterservicesthatlast.org/news/news_events_2/ict_for_wash_in_2013) and invites water and energy leaders to share lessons on how these technologies are changing the way services are delivered, paid for, and how success is measured using data.

There are three themes for the discussions:

1. Innovating finance and billing using mobile channels: pay as you go, using expenditure data, mobile money, airtime, microloans
2. Monitoring and operational data to improve services: mobile monitoring of services; customer/user reporting and support services; alerts and early warning systems; automated monitoring of service performance
3. Professionalising services delivery: cross-sector water-energy collaborations the role of local government in regulation and the enabling environment; new business models for service provision, strategic public-private partnerships.

Welcome and Opening Remarks.

14:00 Achieving Services for Everyone Forever.

- Dr. Patrick Moriarty, IRC

14:10 Opportunities in Mobile for Water and Energy

- Ms. Mary Roach, GSMA

Monitoring and Operational Data

14:20 Introduction.

- Ms. Ilana Cohen, GSMA

14:25 Smart Handpump Trial in Rwanda with Living Water International and MTN

- Dr. Evan Thomas, Portland State University, USA

14:35 Scaling District-Level Monitoring for Improved Rural Water Services.

- Mr. Ben Kubabom, Planning Community Water and Sanitation Agency

14:45 Integrated Monitoring Systems.

- Dr. Babar Kabir, BRAC

14:55 Panel Discussion.

15:10 Coffee Break.

Innovative Financing and Billing

15:40 Introduction and CGAP Digital Finance Framework.

- Mr. Camilo Tellez, WB

15:50 Maji Mashinani – Self-Reported Metering with Micropayments.

- Mr. Phillip Gichuki, Nairobi City Water and Sewerage Company, Kenya

16:00 Sarvajal – Kiosks and Innovative Payments.

16:10 Panel Discussion.

Professionalising Service Delivery

16:30 Introduction.

- Mr. Nicolas Dickinson, IRC

16:35 OMC Power: Leveraging the Telecom Tower Infrastructure in India to Provide Energy Services to Rural Communities.

16:45 Professional Maintenance Services Schemes Using Smart Handpumps.

- Dr. Rob Hope, Oxford University, UK

16:55 Using Mobile to Web Technology (mWater) to Improve Energy Efficiency of Water Supplies for Cost Savings.

- Mr. Sylvain A. Migan, WSP

17:05 Panel Discussion.

17:20 Synthesis and Closing Remarks.

- Mr. George de Gooijer, The Netherlands Embassy in Cotonou, Benin

17:30 Close of Seminar.

EXPLORING THE ADDED-VALUE OF THE WATER-ENERGY-FOOD NEXUS

T3

Convenors: **AEii, DIE, FAO and SIWI**

The Water-Energy-Food Nexus has emerged as a key concept to describe the complex and interrelated nature of our global resource systems. It provides a conceptual framework to better understand the interactions between the natural environment and human activities, and to work towards a more coherent approach to natural resources management. The seminar will take a critical look at the “Nexus” and what it adds to cross-sectoral planning and implementation.

What really is the added-value of the Nexus approach and how it be practically applied? How can the implementation of the Nexus concept be supported through frameworks, assessment

tools and appropriate indicators? The seminar is structured in three parts, exploring different approaches, concepts and frameworks to integrated natural resources management. During the first hour, the question of the added-value of the Nexus vis-à-vis other approaches will be addressed. In the second part of the seminar, participants will be invited to play an interactive online game that simulates complex Nexus relations in a generic river basin system. This will be followed up by a panel discussion on how different concepts, models and tools capture the complex interlinkages between water, energy and food.

14:00 Welcome and Opening Remarks.

► Dr. Olçay Ünver, FAO

Why Do We Need Integrated Approaches – and What’s Different about the Water-Energy-Food Nexus?

Moderator: Ms. Lucie Pluschke, FAO and Mr. Andreas Lindström, SIWI

14:05 Setting the Scene.

► Prof. Gustaf Olsson, Lund University, Sweden

14:20 Managing the Nexi.

► Dr. Olçay Ünver, FAO

14:40 A Critical Take on IWRM.

► Dr. Jakob Granit, SEI

14:50 Biofuels and Large-Scale Land Acquisitions: Examples of (Missed) Nexus Perspectives when Formulating Policies.

► Dr. Michael Brüntrup, DIE-GDI

15:00 Coffee Break.

The Basin Challenge – The Nexus in Practice

15:15 Nexus Simulation Game Introduction.

Moderator: Mr. Nathaniel Matthews, WLE

16:15 Coffee Break.

Dialogue with the Panel on the Added-value of the Water-Energy-Food Nexus

16:30 Panel Discussion.

Moderator: Dr. Jakob Granit, SEI

► Dr. Waltina Scheumann, DEI

► Ms. Carol Chouchani Cherfane, UN-ESCWA

► Prof. Jan Lundquist, SIWI

► Dr. Olçay Ünver, FAO

16:45 Q&A.

17:30 Close of Seminar.

NOTES

WEDNESDAY • 14:00-17:30

FROM FAECAL SLUDGE TO FUEL: SAFE SANITATION WITH BUSINESS OPPORTUNITIES

K22/
K23Convenors: **Eawag and Sandec**Co-Convenors: **CNSS, Gates Foundation, GIZ, GTO, DWA, HKR, NMBU, UKZN, NWP, SEI, SuSanA, TED-Lesotho, WB and MUK**

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This seminar includes two sessions covering all aspects of faecal sludge management (FSM), followed by a multi-stakeholder discussion focused on energy recovery and FSM as an integrated approach for sustainable sanitation based on profitable businesses.

Technologies for energy recovery

Technologies for energy recovery from faecal sludge will be presented, including combustion, co-digestion, gasification, and fertiliser production. Financially viable business models for energy and nutrient recovery and sanitation entrepreneurship will be presented. This session will showcase innovations from WSP, Sandec, and BMGF funded case studies, and examples from the forthcoming IWA publication – Faecal Sludge Management: Systems Approach for Implementation and Operation.

Management and planning tools

Examples of tools will include assessment of institutional models for service delivery, and the relationship between these models, current practice, and business profitability. Preliminary results will be presented from Diagnostics and Guidelines for Faecal Sludge Management in Poor Urban Areas, a WSP/WB study, and from the BMGF case studies.

Panel Discussion – example questions:

- FSM as a utility service?
- Resource recovery as a financial driver for sanitation service delivery?
- Revenue from energy recovery compared to other end uses? compared to wastewater and urine?
- PPP and regulatory models that promote energy recovery and sanitation businesses?

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14:00 Welcome and Opening Remarks.

► Mr. Peter Hawkins, WSP

Technologies for Energy Recovery

14:10 FSM Systems Approach For Enduse and Resource Recovery.

► Dr. Linda Strande, Eawag/Sandec

14:30 Case Studies Of Energy Recovery Business Models.

► Dr. Doulaye Kone, Gates Foundation

Management and Planning Tools

14:50 Creating Citywide Water-Energy-Food Nexus Opportunities: FSM as Driving Force.

► Dr. Jean O. Lacoursière, Kristianstad University, Sweden

15:10 Diagnostics and Guidelines for FSM in Poor Urban Areas.

► Mr. Peter Hawkins, WSP

15:30 Coffee Break.

Panel and Group Discussion.

16:00 Introduction.

16:10 Discussion Among Participants.

16:30 Panel Discussion.

► Mr. Neil Macleod, EtheKwini Water and Sanitation, South Africa

► Dr. Regina Dube, GIZ

► Dr. Charles Niwagaba, MUK

► Mr. Heinz-Peter Mang, SuSanA

► Ms. Jessica Magnusson, SP Technical Research Institute of Sweden

17:20 Wrap-Up.

17:30 Close of Seminar.

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T1

This seminar aims to inspire young people to get engaged in the world around them, be it water issues, human rights, environmental problems, political or grass root movements or something else. To feel that it is possible to change or influence things. Hear from entrepreneurs how you go from an idea to implementation and what it takes to succeed in doing so but also hear about lessons learned along the way.

- 14:00 Welcome and Opening Remarks.
Moderator: Ms. Lovisa Selander, Baltic Development Forum
- 14:05 Being an Entrepreneur.
► Ms. Nathalie Nylén, SUP46 – Start-Up People of Sweden
- 14:25 Cell Phone App to Test Water Potability: A Brief History of Idea,
Research, Patent and Funding.
► Ms. Alison Bick, 2011 Stockholm Junior Water Prize Laureate
- 14:45 Making a Success of Your Idea.
► Mr. Anders Wilhelmson, Peepoople
► Ms. Camilla Wirseen, Peepoople
- 15:05 Reel Gardening, Growing a Business from Idea to Scale.
► Ms. Claire Reid, Reel Gardening, 2003 Stockholm Junior Water
Prize Laureate
- 15:25 Coffee Break.
- 15:55 Business Model Development for Sustainable Sanitation and Water
Management.
► Dr. Johannes Heeb, cewas
- 16:15 Funding Your Idea.
► Mr. Siam Choudhury, FundedByMe
- 16:35 Reflections.
► Ms. Lovisa Selander, Baltic Development Forum
- 16:45 Group Discussions with Presenters.
- 17:30 Close of Seminar.



Photo: Thomas Henrikson

WEDNESDAY • 14:00-17:30

INTEGRATING WATER PRIORITIES AND PERSPECTIVES IN THE AMERICAS

T5

Convenors: **ANEAS and CONAGUA**Co-Convenors: **ABDIB, CAF, EWRI, GWP, IMTA, WWC, WB and UNESCO**

The water-energy nexus provides a key opportunity for cities and utilities to lower energy use and costs, along with reducing their carbon footprint, also mitigating greenhouse gases. However, such nexus must be approached as a mutual impact; we should not think only of water for energy, but also energy for water and its reciprocal implications. One of the Americas priorities is the water and energy nexus, since it can contribute to achieve water security.

Together with the water-energy nexus; other regional priorities that call for attention are: how to implement human right to

water; how is the region managing extreme weather events, especially risks to water supply systems; how to achieve water sustainable cities; how to formulate a strategy for integrated urban water management and ecosystems conservation.

The seminar to gather multi-disciplinary stakeholders, in order to discuss such priorities in the region, to assess the work done regarding each one of them, and to agree on which solutions conceived so far can be implemented and further mobilised, towards the 7th World Water Forum and beyond.

14:00 Welcome and Opening Remarks.

- Mr. Roberto Olivares, Pan-Regional Coordinator of the Americas

14:05 Delivery of the PISAPyS Award.**General Framework****14:10 The Regional Process: A Pillar of the World Water Forum. Regional Input from Previous Fora. The Regions in the 7th WWF.**

- Mr. Torkil Jonch Clausen, DHI
- Mr. Byungman Choi, Regional Process Commission (tbc)

Regional Approach**14:25 Thematic Priorities in the Americas. 6 Priorities. Institutions Involved (WISE). Preparatory Process Progress (SMART).**

- Mr. Roberto Olivares, Pan-Regional Coordinator of the Americas

Sub-Regional Focus**14:40 North America.**

- Mr. Dale Jacobson, EWRI-ASCE

14:50 Mexico.

- Mr. Victor Alcocer, IMTA

15:00 Coffee Break.**15:20 Central America and the Caribbean.**

- Ms. Fabiola Tabora, GWP

15:30 South America.

- Mr. Victor Arroyo, CAF-ABDIB
- Mr. Newton Lima, CAF-ABDIB

Cross-Cutting Perspectives**15:40 Water Politics in the Region: The Case of Mexico.**

- Mr. Gerardo Gaudiano, Mexican Parliament

15:50 Science and Technology

- Mr. Ger Bergkamp, IWA (tbc)

16:00 Sustainable Development Goals (SDG's).

- Mr. Gerard Payen, UNSGAB

16:10 Common Regional Challenges.

- Ms. Zelmira May, UNESCO

16:20 Human Right to Water and Sanitation.

- Ms. Judith Domínguez, COLMEX

Input to the Americas Regional Process**16:30 Small-groups exercise to formulate input and comments on the process development and how to implement solutions to regional and sub-regional challenges.**

Moderator: Mr. Victor Alcocer, IMTA

17:10 Exposition of Input per Group.**17:25 Conclusions: Towards a Regional Water Platform and a Regional Agenda**

- Mr. Roberto Olivares, Pan-Regional Coordinator of the Americas

17:30 Close of Seminar.

NEXUS IN A TRANSBOUNDARY CONTEXT: BUILDING PARTNERSHIPS TO BRIDGE COOPERATION

K2

Convenor: **IUCN**

Co-Convenors: **SIWI and UNECE**

Freshwater ecosystems services when coupled with effective governance arrangements provide critical building blocks to social and economic development. Good water management can foster benefits for biodiversity, water, energy, and food security through transectoral and transboundary cooperation. Degradation of freshwater ecosystems – largely driven by energy, urban, and agricultural development – leaves people more vulnerable as they lose vital ecosystem services. However, as many rivers and lakes are transboundary, the reality of the nexus in this setting is easier said than done, and still needs to permeate in many regions of the world.

This seminar will explore challenges and solutions for nexus governance and transboundary cooperation. It will unfold the

water, agricultural and energy sectors and what is needed to have more inter sectorial cooperation from a legal, policy and institutional perspectives. How can different institutions working at different levels better coordinate from implementing an integrated approach to water, food and energy production? What type of policies and legal frameworks can derive into enhanced synergies between the water, the food and the energy sectors? How does biodiversity and ecosystems fit into this concept, particularly in a transboundary setting? And finally what should be the priorities for strengthening the nexus approach in water governance and diplomacy? These and other questions will be dealt with in this seminar, drawing upon global to local experiences from both academic and practitioners.

14:00 Welcome and Opening Remarks.

► Dr. Alejandro Iza, IUCN

The Nexus and The Different Sectors

14:05 The Energy Sector Use of Water and the Impact on TRB.

► Mr. Jorge Habib, ITAPU Binaccional

14:20 The Agricultural Sector Use of Water and the Impact on TRB.

► Dr. Andrew Noble, WLE

14:35 Value and Importance of the “4th Dimension” of the Nexus.

► Dr. Isabelle Fauconnier, IUCN

14:50 Reacting Speaker: Is Better Water Management the Way Forward?

► Dr. Jenny Grönwall, SIWI

15:05 Q&A.

15:30 Coffee Break.

Local Solutions to the Nexus

Chair: Dr. Therese Sjömander Magnusson, SIWI

16:00 Case Study: Benefit – Sharing in a “National to Local Setting”.

► Mr. Voradeth Phonekeo, MRC

16:10 Case Study: Nexus and Benefit Sharing in Central Asia – Case Study from the Chu-Talas basin.

► Prof. Mark Howells, KTH, Sweden

16:20 Case Study: Progress, Hydro Power and Transboundary Cooperation in the Greater Horn of Africa and the Nile Region.

► Mr. Simon Thuo, Social Impact Institute

16:30 Reacting Speaker: Assessing and Communicating Benefits of Transboundary Water Cooperation.

► Ms. Sonja Koeppel, UNECE

16:40 Q&A.

17:00 Conclusions: Financing the Nexus – How Much Does it Cost?

► Financial Institution (tbc)

17:20 Priorities for Strengthening a Nexus Approach in Water Diplomacy.

► Dr. Mark Smith, IUCN

17:30 Close of Seminar.

WEDNESDAY • 14:00-17:30

UN-WATER STAKEHOLDER DIALOGUE: WATER ENERGY AND FOOD NEXUS AND THE POST-2015 DEVELOPMENT AGENDA

K11

Convenor: **UN-Water**Co-Convenors: **BMZ, BMUB, GIZ, UNW-DPC, UNW-DPAC and UNU**

Water, energy and food security are closely interrelated and among the world's pre-eminent challenges. They have their place high up on the international agenda and regularly feature in important conferences and policy processes, sparked substantially by the Bonn Nexus Conference, organised by Germany in 2011. These issues are highly relevant for the Post-2015 Development Agenda when aiming towards building resilient societies, eradicating poverty and fostering sustainable development.

In this fifth UN-Water Stakeholder Dialogue, representatives from Germany and other Member States, civil society, international organisations and other major relevant stakeholders will discuss how to best capture the interlinkages between water and other sectors such as energy and food/agriculture. Using the UN-Water Technical Advice 'A Post-2015 Global Goal for Water' as a point of departure, an open debate with the audience will enrich the discussion.

14:00 Welcome and Opening Remarks.

- Dr. Blanca Jimenez-Cisneros, UN-Water
- Ms. Tanja Rödiger-Vorwerk, BMZ

Spotlight on UN-Water Activities on Water and Energy

Moderator: Mr. Jens Liebe, UNW-DPC

14:10 Putting Water and Energy at the Heart of Sustainable Development.

- Dr. Zafar Adeel, UNU-INWEH

14:25 Main Messages of the World Water Development Report 2014 on "Water and Energy".

- Mr. Federico Properzi, UN-Water

The Water, Energy and Food Security Nexus in the Post-2015 Development Agenda –Status Quo

Moderator: Dr. Reza Ardakanian, UNW-DPC

14:40 Introduction to the Post-2015 Process.

- Ms. Nina Odenwälder, GIZ

14:45 UN-Water Technical Advice on a Post-2015 Global Goal for Water: Securing Sustainable Water for All.

- Dr. Joakim Harlin, UNDP

14:55 OWG Proposals on Food and Agriculture, Energy and Sustainable Production and Consumption – Assessed from a Nexus Perspective.

- Ms. Nina Weitz, SEI

15:05 Q&A.

15:30 Coffee Break.

The Post-2015 Development Agenda – How is the Water, Energy and Food Security Nexus Integrated?

16:00 Panel Discussion.

Moderator: Dr. Johan Kuylenstierna, SEI

- Dr. Tania Rödiger-Vorwerk, BMZ
- Dr. Kitty van der Heijden, WRI
- Dr. Rabi Mohtar, Texas A&M, USA
- Dr. Albert Butare, African Energy Services Group, Rwanda
- Mr. Bai Mass Taal, AMCOW

16:50 Q&A.

17:20 Closing Remarks.

- Dr. Uschi Eid, UNSGAB

17:25 Wrap-Up.

- Ms. Josefina Maestu, UNW-DPAC

17:30 Close of Seminar.

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T4

Co-Convenors: **China Water Risk, HSBC and ADB**

On the other hand coal mining has a large impact on the local water resources. China accounts for over half of the global coal consumption and has forty percent of the global proposed coal-fired power plants generation capacity. Coal energy production is one of the largest water user and polluter, while water resources are extremely limited in China.

Even more dependent on coal resources is South Africa, the biggest coal producer in Africa, with a share of 77 per cent of its total energy production. Coal mining activities put an enormous pressure on groundwater quality and quantity. One of the major problems in open pit mining is Acid Mine Drainage (AMD). Without a sound environmental management in the planning and operation of these mining operations, they cause severe environmental pollution. The avoidance of environmental damages would not only protect water resources but also save large costs for rehabilitation.

- programme.worldwaterweek.org

WEDNESDAY • 17:45-18:45

COMBINING WATER FOOTPRINT
AND WATER RISK FOR IMPROVED
WATER STEWARDSHIP

T4

Convenor: **GDF SUEZ**Co-Convenors: **WRI, WULCA and Quantis**

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Introduction Water footprint: state of the art and recent developments (WULCA) Water risk analysis tools: the example of Aqeduct (WRI) Combined use of water footprint and water risk analysis tool: case study of GDF SUEZ Questions and Answers Closing Remarks.

17:45 Welcome and Opening Remarks.

- ▶ Ms. Elsa Favrot, GDF SUEZ
- ▶ Mr. Samuel Vionnet, Quantis

17:50 Water Risk Analysis Tools: The Example of Aqeduct.

- ▶ Ms. Tien Shiao, WRI

17:57 Water Footprint: State Of the Art and Recent Developments.

- ▶ Ms. Anne-Marie Boulay, WULCA

18:09 Combined Use of Water Footprint and Water Risk Analysis Tool: Case Study of GDF SUEZ

- ▶ Ms. Anne Prieur-Vernat, GDF SUEZ

18:24 Q&A.

18:40 Closing Remarks.

18:45 Networking with Refreshments.



Photo: Hélène Le Deunff

COMPETING WATER CLAIMS: INDIGENOUS PEOPLE, MINING AND
HYDRAULIC INFRASTRUCTURE DEVELOPMENT

T3

Convenor: **WGF at SIWI**Co-Convenor: **Justicia Hidrica**

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The rising global demand for energy and mineral resources puts increasing pressure on water bodies that are critical to indigenous people. The event will review the effects of mining and dam

projects on indigenous peoples and explore dialogue and stakeholder participation as strategies to prevent and mitigate negative impacts.

17:45 Welcome and Opening Remarks.

- ▶ Dr. David Groenfeldt, Water-Culture Institute

17:50 A Worldwide Perspective on Indigenous Peoples and Industry Water Users.

- ▶ Dr. Alejandro Jiménez, SIWI
- ▶ Ms. Maria Molina, SIWI

18:00 Impacts of the Gibe Dams in Ethiopia on the Lake Turkana Basin and its People.

- ▶ Ms. Ikal Ang'elei, Friends of Lake Turkana

18:10 Water, Mining and the Sami People in Sweden.

- ▶ Ms. Josefina L Skerk, Sami Parliament, Sweden

18:20 Recognising Indigenous Water Cultures and Rights in Australian Mine Water Management: The role of Negotiated Agreements.

- ▶ Dr. Sue Jackson, Griffith University, Australia

18:30 The Role of Proactive Engagement in Safeguarding Indigenous Peoples' Rights to Safe Water, Livelihoods and Environment.

- ▶ Mr. Ross Hamilton, ICMM

18:40 Questions and Closing Remarks.

18:45 Close of Side Event.

**K16/
K17**

[illegible]

Exhibition Hall



WEDNESDAY • 17:45-18:45

**THE WATER-FOOD-ENERGY
NEXUS: INSIGHTS INTO
RESILIENT DEVELOPMENT**
**K22/
K23**

Convenor: **WWF**
Co-Convenor: **SABMiller**

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Drawing on work commissioned by WWF and SABMiller, and undertaken by Pegasys Consulting, the event will look at the resource endowments, plans, policies and institutional arrangements in 16 territories around the world. The event will share insights from this work which might help decision-makers think about development choices.

- 17:45 Welcome and Opening Remarks.
Dr. David Tickner, WWF
- 17:50 Why are SABMiller and WWF Interested in the Nexus? Why yet Another Piece of Analysis on the Nexus?
► SABMiller (tbc)
- 18:00 Resilient Development: Key Insights for Economic Decision-Makers.
► Dr. Guy Pegram, Pegasys
- 18:20 Discussion and Reflection: Is any of this Useful to Practitioners and Policy-Makers?
- 18:35 Q&A.
- 18:45 Close of Side Event.

**WATER-ENERGY STRATEGIES IN
CRITICAL, BUT THREATENED,
RIVER BASINS**
K24

Convenors: **AUSA, USIP and USWP**
Co-Convenors: **GU, ISSA, NDU, The Stimson Center and UN-INWEH**

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This session highlights track II and track III dialogues and how a systems-view analysis of water-energy security challenges identifies the landscape for public-private partnerships. Proposed demonstration projects highlight how interventions along unique segments of river systems promote environmental conditions designed to prevent conflict and allow cost-benefit projection of outcomes.

- 17:45 Welcome and Opening Remarks.
► Mr. Chuck Chaitovitz, USWP
- Track II and Track III Dialogue Landscape*
- 17:50 Key Findings and Next Steps.
► Mr. David Michel, Stimson Center
- 18:00 Q&A.
How PPP Interventions along Unique Segments of River Systems Promote Environmental Conditions Designed to Prevent Conflict
- 18:05 Brief Remarks on Water-Energy Nexus and the Indus Basin Trust.
► Dr. Adeel Zafar, UNU
- 18:15 Brief Remarks on the Niger Basin Trust.
► Dr. John Kelly, USWP
- 18:25 Q&A.
- 18:45 Close of Side Event.

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STOCKHOLM JUNIOR WATER PRIZE

Photo: Cecilia Österberg, EXRay



H.R.H. Crown Princess Victoria of Sweden is the Patron of the prize.

DOES YOUR COUNTRY WANT TO CONTRIBUTE TO THE COMPETITION?

We co-operate with devoted national organisers in over 30 countries. During 2014, national competitions have been conducted in Argentina, Australia, Belarus, Canada, Chile, China, Cyprus, Finland, France, Germany, Hungary, Israel, Italy, Japan, Latvia, Mexico, the Netherlands, Norway, Poland, Republic of Korea, Russian Federation, Singapore, South Africa, Sri Lanka, Sweden, Thailand, Turkey, United Kingdom, Ukraine and USA.

Is your country not represented in the list above?

Do you know of an organisation suitable to host the national competition? Get in touch – we are always looking for new inspiring organisers to help us aggregate and spread water knowledge.

STOCKHOLM JUNIOR WATER PRIZE IN NUMBERS

- 1997** Stockholm Junior Water Prize was founded in 1997 by Stockholm International Water Institute (SIWI)
- 5** Continents are represented in the competition each year.
- 12** Different countries have received the award from the start in 1997.

As of 2014, SIWI has increased the prize sums notably, to enhance the support and encouragement to young people's interest in water and sustainability issues.

The new prize sums are:

- **WINNER** – USD 15,000
- **DIPLOMA OF EXCELLENCE** - USD 3,000
- **WINNER'S SCHOOL** – USD 5,000 (new category)

SPONSORS AND SUPPORTERS

Xylem Inc., SAS & Coca-Cola Environmental Foundations, Europcar, and People Travel Group.

For more information on how to get involved, please contact Ms. Cajsa Larsson
cajsa.larsson@siwi.org

www.siwi.org/prizes/stockholmjuniorwaterprize



INTRODUCTION

SUNDAY

MONDAY

TUESDAY

WEDNESDAY

THURSDAY

FRIDAY

SOCIAL/AWARDS

GENERAL INFO

THURSDAY September 4

FULL DAY

Workshops	Convenors	Co-Convenors	Room	Page
Access, Poverty and the Post-2015 Development Agenda	SIWI	GWP, SEI and WLE	T6	
Valuation, Economics and Finance	SIWI	Alstom, Rockefeller Foundation and WB	K16/ K17	

MORNING • 09:00-12:30

Seminars	Convenors	Co-Convenors	Room	Page
Assessing the Advantages of Sectoral Anti-Corruption Approaches in Harmony with IWRM	WGF at SIWI and WIN	Cap-Net UNDP and UNDP GAIN	K21	
Building Capacities of Water Sectors in Transition: Lessons from Southern Africa	SIWI	Botswana DWA and NamWater	T3	
Building Effective Regulatory Frameworks for Hydropower: Lessons from Water Governance	IIED and IUCN	IHA	K11	
China Europe Water Platform: Driving Innovation, Partnerships and Dialogue	China Europe Water Platform	Ministry of Water Resources, China and SIWI	K24	
Climate-Informed Decision Support Tools for Sustainable Water Management	AGWA and WB	CI, RTI and IADB	T5	
Human-Environmental Security in the Asia-Pacific Ring of Fire: Water-Energy-Food Nexus	RIHN	UNU-EHS	T4	
Stockholm Water Prize Seminar: The Power of Water	SIWI	KVA	K2	
Strengthening Resilience through Water and Energy Efficiency in Irrigation	GIZ	UNESCO-IHE	K22/ K23	

LUNCH

Side Events	Convenors	Co-Convenors	Room	Page
Climate, Energy, Food and Water: Managing the Linkages	ANU and USSC	–	T3	



SOCIAL EVENTS STOCKHOLM WATER PRIZE AWARD CEREMONY AND ROYAL BANQUET and AN EVENING AT AQUARIA WATER MUSEUM.
More information on pages 137-138.

Photo: Istock



Seminars	Convenors	Co-Convenors	Room	Page
Designing our Water Energy Future: Challenges, Opportunities and Leadership Needed	IWC	A4A, IEC, NWP, Rebel, VEI and Wetsus	T2	
Earth Observations (EO) in Support of Sustainable Water Management	Cap-Net UNDP and ESA	ITC	K11	
Hydropower in Transboundary River Basins: Private Investments and Regional Cross-Sector Cooperation	GIZ, DIE, ICPDR, MRC and UNECE	–	K21	
Innovations for More Food with Less Water and Less Energy	LI	ADB, FAO, IWMI and WB	T5	
New Concepts and Technologies for Sanitation in Emergency Settings	IFRC	Oxfam, SuSanA, Swedish Red Cross and WASTE	K24	
Putting Drip Irrigation in Perspective: Reality Check on the Promises of a Technology	IRD and WUR	AFEID-ICID, CIRAD, FAO, IFAD, and iDE	T5	
Water as Energy Storage for Better Integration of Renewables	CEDREN	IHA and UNU- FLORES	T4	

T6

PROGRAMME

Setting the Scence

- 09:00 Welcome and Opening Remarks.
▶ Dr. Alain Vidal, CGIAR
- 09:00 Water in the SDG-Process – The Current State of Play.
▶ Dr. Joakim Harlin, UNDP
- 09:20 Keynote.
▶ Hon. Nomvula Mokonyane, Minister of Water and Sanitation, South Africa (tbc)
- 09:35 Power and Water Security in Zimbabwe: Assessment and Recommendations on Reducing the Impact of Power Outages on Water Services.
▶ Mr Piers Cross, WSA
- 09:50 Beyond the Buzzwords: “Innovation” and the Closing of Equity Gaps.
▶ Dr. David Nilsson, KTH, Sweden
- 10:05 Panel Discussion.
Moderator: Dr. Jakob Lundberg, We Effect, Sweden
- 10:30 Coffee Break.

Technical Solutions

- 11:00 Adapted Technologies for the Integrated Management of Water, Energy, and Food in Asian Cities.
▶ Dr. Marius Mohr, Fraunhofer IGB
- 11:20 Solar Irrigation Pumps: Farmers’ Experience and the State Policy in Rajasthan, India.
▶ Dr. Avinash Kishore, International Food Policy Research Institute
- 11:35 Poster Presentations.
▶ Mr. Naty Barak, Netafim, Israel.
▶ Mr. Marc Francois Muller, University of California – Berkeley, USA
▶ Mr. Robert Nanes, iDE
▶ Ms. Shereen Obaid, Carbon Disclosure Project – Water Disclosure, Palestinian Territories
▶ Prof. Mynepalli Sridhar, University of Ibadan
▶ Prof. Pedro-Andrés Sánchez-Gutiérrez, National Water Commission, Mexico

- 12:05 Translating Research into Policy for Improved Water Access and Alleviating Poverty: Insides from India.
▶ Dr. Aditi Mukherji, ICIMOD

- 12:25 Conclusions.
Chair: Dr. Louise Karlberg, SEI

- 12:30 Lunch.

Looking Forward

- 14:00 Introduction.
- 14:10 Investing for a Post-2015 World and Equitable and Sustainable Solutions.
▶ Dr. Nicoline de Haan, WLE
▶ Dr. Alain Vidal, CGIAR
- 14:25 Framing the Water-Energy Nexus within the Post-2015 Development Agenda to Address Global Development Challenges.
▶ Dr. Paul Yillia, IIASA
- 14:40 Panel Discussion.
Moderator: Ms. Karin Lexén, SIWI
▶ Dr. Ursula Schaefer-Preuss, GWP
▶ Ms. Gunilla Carlsson, UN High-Level Panel on Post-2015
▶ H.E. Bui Cách Tuyen, Vice Minister, Ministry of Natural Resources, Vietnam
▶ Dr. Holger Hoff, SEI
▶ Ms. Annika Söder, DHF
- 15:20 Conclusions and Recommendations.
▶ Dr. Ania Grobicki, GWP
- 15:30 Close of Workshop.

PROGRAMME

09:00 Welcome and Opening Remarks.

- Dr. Diego Rodriguez, WB

Focus Area: Risk and Investment Decision-Making

09:05 Water for Power: Issues and Solutions.

- Dr. Philippe Paelinch, Alstom

09:15 Water and Energy Financing at EIB: Can a Value-Based Approach Help Address Water Risks and Increase Finance for Water Stewardship?

- Mr. Jonathan Taylor, EB

09:25 Business Value at Risk as a Strategy to Address Mitigate Water Risk in the Energy Sector.

- Mr. William Sarni, Deloitte Consulting LLP

09:35 Water-Related Business Risk Assessment in the Oil and Gas Industry.

- Dr. Frank Niele, Shell

09:45 Possible Impacts of Water-Pricing on the Cost of Electricity and on Investment Decisions – Water Cooling Technologies in the Power Sector and the Technologies for Managing Water Processing in Thermal Plants.

- Mr. Ghazi Kablouti, Alstom

09:55 Embedding Good Water Stewardship Practices in the Supply Chain.

- Ms. Cate Lamb, CDP

10:05 Q&A.

Moderator: Dr. Diego Rodriguez, WB

10:30 Coffee Break

Panel Discussion: Risks and Investment Decision-Making

11:00 Welcome Address.

- Dr. Diego Rodriguez, WB

11:05 Panel Discussion.

Moderator: Ms. Eliza Anyangwe, The Guardian

- Ms. Julia Bucknall, WB
- Ms. Usha Rao Monari, Global Development Partners
- Ms. Simone Bares, Alstom
- Ms. Monica Scatasta, EIB
- Mr. Will Sarni, Deloitte Consulting LLP

12:20 Concluding Remarks.

- Mr. John Joyce, SIWI

12:30 Lunch

Focus Area: Ecosystems and Energy

14:00 Welcome Address.

- Dr. Fred Boltz, Rockefeller Foundation, USA

14:05 Cost-Benefit Analysis of Energy from Moving Water.

- Prof. Bengt Kriström, UMU

14:15 Mapping Sustainable Trajectories for River Basins.

- Prof. Casey Brown, University of Massachusetts, USA

14:25 Payments for Ecosystem Services to Alleviate Poverty – A Case Study of Mangrove Wetlands in Vietnam.

- Dr. Ulrika Stavlöt, Fores

14:35 Assessing Hydropower in Ecosystem Services Conservation Scenarios – A Case Study in the Alpine Region.

- Dr. Sylvain Leduc, IIASA

14:45 Panel Discussion.

Moderator: Ms. Eliza Anyangwe, The Guardian

- Prof. Bengt Kriström, UMU
- Prof. Casey Brown, University of Massachusetts, USA
- Prof. Gretchen Daily, Natural Capital Project
- Dr. Fred Boltz, Rockefeller Foundation, USA

15:20 Conclusions.

15:30 Close of Workshop.

THURSDAY • 09:00-12:30

ASSESSING THE ADVANTAGES OF SECTORAL ANTI-CORRUPTION APPROACHES IN HARMONY WITH IWRM

K21

Convenors: **WGF and WIN**Co-Convenors: **Cap-Net UNDP and UNDP GAIN**

Corruption is both a cause as well as a result of poor water governance. To be effective, improving water governance requires the involvement of stakeholders from resource exploitation through regulation to consumption. Furthermore actors from other sectors have to be engaged, as manifested by the adoption of IWRM principles in many countries.

At the same time, the anti-corruption movement increasingly argues in favour of a sectoral approach to fighting corruption. Sectoral reforms can reinforce the effectiveness of general public administration and sector specific knowledge is critical to understand the risks, pressures, and resistance to reforms.

Also, leadership and public support may be stronger in some sectors compared to others. However, resistance to engage with

actors from outside may affect the efficacy of promoting water integrity.

- What are the advantages and limitations of using a sectoral approach to address water corruption?
- The role of the national governance context: Can 'Islands of Integrity' be created in countries with pervasive corruption levels? Can the water sector be a forerunner here?

The seminar will share lessons learned from a diverse set of water and non-water stakeholders with experiences from sectoral anti-corruption work. Active participation from the audience will be encouraged.

09:00 Welcome and Opening Remarks.

- Mr. Ravi Narayanan, WIN

Setting the Scene

09:10 Why Using A Sectoral Approach to Tackle Corruption?

- Dr. Anga Timilsina, UNDP GAIN (tbc)

09:25 Learning from other Sectors: the Extractive Industries Transparency Initiative.

- Mr. Jonas Moberg, EITI

Sharing Experiences

09:40 Local Level: Improving Transparency and Accountability of Community Water Boards (ASADAs).

- Mr. Kifah Sasa, UNDP

09:50 Utility Level: Implementing Water Integrity at Water Utilities: A New Action-Oriented Approach for National Water Service Providers in Morocco (ONEE) and Tunisia (SONEDE).

- Mr. Mostafa Biad, ONEE, Morocco.

10:00 National Level: Alliance Building For Water Sector Integrity in a Context Of Systemic Corruption.

- Mr. Sanjib Biswas Sanjoy, Bangladesh Water Integrity Network

10:10 Basin Level: Water Integrity as a Key Ingredient for IWRM: Reflections from the Lake Victoria Basin.

- Dr. Canisius Kanangire, LVBC
- Ms. Maria Jacobson, SIWI

10:20 International Level: CleanBiz Toolkit with Draft Water Sector Chapter: Multi Stakeholder Perspectives beyond Sector Boundaries.

- Ms. Delphine Clavreul, OECD

10:30 Coffee Break.

11:00 Reflection from the Chair and Remarks from the Audience.

11:15 Panel Discussion.

- Mr. Damian Indij, Cap-Net
- Ms. Katrin Gronemeier, GIZ
- Dr. Barbara van Koppen, IWMI
- Ms. Kate Lamb, CDP
- Mr. Ben Blumenthal, SDC/Helvetas

11:40 Q&A.

12:30 Close of Seminar.

BUILDING CAPACITIES OF WATER SECTORS IN TRANSITION: LESSONS FROM SOUTHERN AFRICA

T3

Convenor: **SIWI**

Co-Convenors: **DWA Botswana and NamWater**

The main event of this seminar will be a facilitated debate among government and water utility representatives from southern Africa on how to capitalise on the numerous capacity building interventions in water management in the region that have been carried out since the World Summit on Sustainable Development in 2002, held in Johannesburg.

Several of these interventions have been geared towards supporting the development and implementation of Integrated Water Resources Management Plans, a mandate of the WSSD. The southern African region has a highly trained water sector, with several capacity building activities having been undertaken by various organisations such as the Southern African Development

Community (SADC), InWEnt, CapNet, WaterNet, as well as SIWI. In the period 2009-2013, Sida implemented the Partner Driven Cooperation initiative in order to foster partnerships between organisations in Sweden and organisations in seven countries in which bilateral aid from Sweden would be phased out at the end of the period.

Three of these seven countries are in southern Africa, namely, Botswana, Namibia and South Africa. As well as being the economically wealthiest countries in the region, they are the most water-scarce, and are in the process of transforming their water sectors.

09:00 Welcome and Opening Remarks.

Chair: Mr. Anton Earle, SIWI

09:10 Capacity Development in Southern Africa.

► Dr. Jean-Marie Kileshye Onema, WaterNet

09:30 Rand Water Academy.

► Mr. Asief Alli, Rand Water, South Africa

09:50 Sharing Experience from the Capacity Building Programme on Water Integrity in Sub-Saharan Africa.

► Mr. James Leten, SIWI

10:10 Q&A.

10:30 Coffee Break.

11:00 Panel Discussion.

Moderator: Dr. Themba Gumbo, Cap-Net UNDP

► Dr. Tjipangandjara Kuiri, Namibia Water Corporation

► Dr. Obolokile Obakeng, Department of Water Affairs, Botswana

► Mr. Percy Sechemane, Rand Water, South Africa

► Mr. Dhesigen Naidoo, WRC, South Africa

► SADC Task Manager for the Capacity Building of the Water Sector (tbc)

► GWP, Southern Africa (tbc)

12:25 Closing Remarks.

12:30 End of Seminar.

THURSDAY • 09:00-12:30

**BUILDING EFFECTIVE REGULATORY FRAMEWORKS FOR HYDROPOWER:
LESSONS FROM WATER GOVERNANCE****K11**Convenors: **IIED and IUCN**Co-Convenor: **IHA**

International and national regulation for hydropower investments provide a complex set of rules, roles, and responsibilities, often linked to international standards and financing safeguards. These are intended to reduce risks to investors, government, civil society and the environment. However, recent research suggests that, best practice environmental and social safeguards are not systematically applied as they are rarely mandatory. The risk that this brings is therefore carried by the private sector (i.e. financiers, owners, operators), communities and societies affected by dam construction. These social and environmental risks should be more effectively recognised and regulated for by the public sector

agencies responsible, and the bar set higher by those investors who voluntarily promote environmental and social safeguard compliance. The result of this is a high degree of variability in the quality of social and environmental outcomes, high project transaction costs, delays, cancellation – and a lack of the benefit sharing ideals often championed by hydropower projects.

This workshop will bring together different perspectives concerning voluntary versus regulatory transparency and disclosure to reduce risk for investors, and to ensure better hydropower projects for local communities and downstream ecosystems and other water users.

09:00 Welcome and Opening Remarks.

- ▶ Mr. James Dalton, IUCN
- ▶ Mr. Jamie Skinner, IIED

09:05 Watered Down? A Summary Presentation on the Review of Social and Environmental Safeguards for Large Dam Projects: Risks Faced by Investors?

- ▶ Mr. Jamie Skinner, IIED

09:25 Factors That Led to the Success of Jirau: The Use of Regulation.

- ▶ Peter Newborne, ODI

09:45 What We Need to Reduce Risk – What We Consider Regulation Provides.**10:05 Assessing Risk across an Energy Portfolio: Energy Developer Requirements from Public and Private Investors.****10:20 Q&A.****10:30 Coffee Break.****11:00 How Can We Reduce Investor Risk in Hydropower through Better Regulation?**

- ▶ Mr. Cameron Ironside, IHA

11:20 Facilitated Panel Discussion with Audience Participation.

Moderator: Mr. David Harrison (tbc)

- ▶ Dr. Anders Jägerskog, Sida

12:05 Summary of the Seminar – Risk Reduction for a Clean Energy Future That Supports Social and Environmental Benefits.

- ▶ Mr. Daryl Fields, WB (tbc)
- ▶ Mr. Rikard Liden, WB

12:15 Q&A.**12:30 Close of Seminar.**

NOTES

CHINA EUROPE WATER PLATFORM: DRIVING INNOVATION, PARTNERSHIPS AND DIALOGUE

K24

Convenor: **China Europe Water Platform**

Co-Convenors: **Ministry of Water Resources, China and SIWI**

A well structured EU China cooperation in the water sector has been unfolding since March 2012, when the China Europe Water Platform was agreed between the Ministry of Water Resources of China and the European Union represented by Denmark then having the presidency of the EU.

Cooperation is now progressing under three work areas of: Rural Water Challenges, Urban Water Challenges and River Basin and Flood Risk Management Challenges. So far these challenges are addressed in eight partnership programs jointly implemented by EU Member States and Chinese provinces, municipalities, research and sector institutions.

In the session the partners will present the cooperation programs and projects and invite government agencies, researchers, know-how institutions and the private sector to join the China Europe Water Platform.

09:00 Welcome and Opening Remarks.

Chair: Mr. Henrik Dissing, EU CEWP Secretariat

► Mr. Stefan Berggren, Ministry of Environment, Sweden

09:10 Introducing the China Europe Platform.

► Mr. Stefan Berggren, Ministry of Environment, Sweden

Addressing Key Rural and Urban Water Challenges in Europe and China

Chair: Mr. Lars Skov Andersen, COWI, Denmark

09:30 Addressing The Key Rural Water Challenges in Europe and China.

► Ms. Birgit Vogel, RBM Solutions

► Mr. Li Lifeng, WWF

10:00 Addressing the Key Urban Water Challenges in Europe and China.

► Mr. Martin Griffiths, Pillon Ltd

► Mr. Li Lifeng, WWF

10:30 Coffee Break.

EU-China Co-lead Partnership Programs and Projects Panel Presentations, Discussions and Q&A

Chair: Ms. Heidi Christiansen Barlebo, Geological Survey of Denmark and Greenland

Rural Water Challenge Programmes

11:00 Urban Water Security and the Water – Energy – Food Nexus.

► Mr. Guoyi Han, SEI

► Mr. Wu Shiqiang, Nanjing Hydraulic Research Institute
Integrated Urban Water Management.

► Ms. Miriam Feilberg, DHI

► Ms. Xie Yingxia, China Academy for Planning and Design

Flood Risk and River Basin Management Programmes

12:00 River Basin Management. (tbc)

Flood Risk Management.

► Mr. Gerard de Vries, IenM

12:25 Concluding Remarks.

► Mr. Henrik Dissing, EU CEWP Secretariat

12:30 Close of Seminar.

INTRODUCTION

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THURSDAY

FRIDAY

SOCIAL/AWARDS

GENERAL INFO

THURSDAY • 09:00-12:30

CLIMATE-INFORMED DECISION SUPPORT TOOLS FOR SUSTAINABLE WATER MANAGEMENT

T5

Convenors: **AGWA and WB**Co-Convenors: **CI, IADB and RTI**

Weak institutions, lack of data, poor understanding of ecosystems, and inflexibility of infrastructure are often cited as obstacles to sustainable water management. Lack of generally accepted decision-making methodologies in the face of climate variability and change should be added. There is widespread agreement about the need to manage water in a more comprehensive and sustainable manner, but doing so requires integrating new perspectives, economic and investment tools, policy and regulatory frameworks, and social and environmental performance markers into decision processes that are often opaque, qualitative and poorly structured.

Climate variability and change is an exacerbating challenging factor for managing the food-energy-water nexus, and a key

uncertain factor in planned investments. Revising decision-making processes challenges institutional capabilities and prerogatives and requires careful preparation and execution by decision-makers whose projects are complicated by climate change and other uncertainties.

In this seminar, we will present decision support tools that are available for institutions and decision makers when working with climate sensitive projects and investments; explore examples and examine lessons to introduce more objective and stakeholder-driven decision processes; and illustrate how water management approaches can be transformed to promote long-term sustainability in the face of climate variability and change.

09:00 Welcome and Opening Remarks.

- Mr. Marcus Wijnen, WB

09:05 Book Launch: Beyond Downscaling:

A Bottom-Up Approach to Climate Adaptation for Water Resources Management.

- Mr. Marcus Wijnen, WB
- Dr. John Matthews, AGWA
- Mr. Luis Garcia, WB
- Mr. Casey Brown, University of Massachusetts, USA
- Mr. Patrick Ray, University of Massachusetts, USA
- Mr. Eugene Stakhiv, USACE

09:20 Climate Risk Assessment of Hydro-Energy Generation in Cameroon.

- Mr. Johan Grijnsen, Consultant

09:40 Decision Tree: A Climate Risk Assessment for Water Infrastructure.

- Mr. Casey Brown, University of Massachusetts, USA

10:00 Decision Tree: A Decision Support Framework for Evaluation of Climate Risk to Water Resource Systems.

- Mr. Patrick Ray, University of Massachusetts, USA

10:20 Break – With a Side Presentation of the AGWA eBook

- Dr. John Matthews, AGWA

10:40 Hydro BID: A Decision Support Tool for Water Management and Infrastructure.

- Mr. Fernando Miralles-Wilhelm, IADB

11:00 Hydro-BID: Modeling the Impact of Climate Change on Irrigation Demand and Operations.

- Mr. Fekuda Moreda, RTI
- Mr. Gene Brantly, RTI

11:20 Climate Change and Water Resources Adaptation: Decision Scaling and Integrated Eco-Engineering Resilience.

- Mr. Leroy Poff, Colorado State University, USA

11:40 Panel Discussion.

12:30 Close of Seminar.

HUMAN-ENVIRONMENTAL SECURITY IN THE ASIA-PACIFIC RING OF FIRE: WATER-ENERGY-FOOD NEXUS

T4

Convenor: **RIHN**

Co-Convenor: **UNU-EHS**

The event will be lead by the RIHN in cooperation with the UNU-EHS.

This focuses on the human-environmental security in the Asia-Pacific Ring of Fire, which is experiencing drastic social change alongside the huge potential risks and benefits associated with development.

The event introduces the project on water-energy-food nexus lead by the RIHN. Themes for this project include, for example, conflicts and tradeoffs between geothermal power generation and the hot spring business (water-energy nexus), water uses on land vs environmental flow from land to the ocean for coastal ecosystem (water-food (fishery resources) nexus), and resource

development vs water use and contamination (water-energy nexus), among others. The project takes interdisciplinary and transdisciplinary research approaches.

UNU-EHS will further contribute to an improved understanding of the new challenges of coastal communities in terms of natural hazards, climate change, food and water security. Specific attention in this regard will be given to the assessment of resilience of countries and coastal communities and especially the challenges to measure resilience in complex urban and peri-urban areas. A first composite index to measure resilience will be presented based on own research and global data available.

Welcome and Opening Remarks.

09:00 Introduction of RIHN NEXUS Project.

► Prof. Makoto Taniguchi, RIHN

09:10 Water Risk Management at Global Level.

► Prof. Jakob Rhyner, UNU-EHS

Water-Energy-Food Nexus

09:25 Energy-Water Nexus Relevant to Baseload Electricity Source Including Mini/Micro Hydropower Generation.

► Dr. Masahiko Fujii, Hokkaido University, Japan

09:40 Evaluation of Indicator Related to the Energy Water Nexus: Case Study of Geothermal Energy.

► Dr. Jun Nishijima, Kyushu University, Japan

09:55 Effectiveness and Challenges of Stakeholder Analysis for Water-Energy-Food Nexus Issues: Implications from Japanese Cases Studies.

► Prof. Kenshi Baba, Hosei University, Japan

10:10 Q&A.

Integrated Index and Map

10:15 Integrated Approach to Evaluate Water Energy Food Nexus for Maximising Human.

► Dr. Aiko Endo, RIHN

10:30 Indicators for Evaluating a Water- Food (Fisheries) Nexus: The Case of Laguna de Bay in the Philippines.

► Mr. Pedcris Orencio, RIHN

10:45 Assessing Global Risk Patterns – The World Risk Index.

► Dr. Joern Birkmann, UNU-EHS

11:00 Q&A.

11:05 Coffee Break.

Integrated Risk Management

11:35 Integrated Risk Management: Case Study of Flooding and Water-Energy- Food Nexus in Indonesia.

► Prof. Hidayat Pawitan, Bogor Agricultural University

11:50 Rehabilitation from Tsunami in Otsuchi, Japan.

► Prof. Makoto Taniguchi, RIHN

12:00 Q&A.

Open Discussion

12:05 Panel Discussion.

► Prof. Makoto Taniguchi, RIHN

► Prof. Jakob Rhyner, UNU-EHS

12:25 Summary of the Seminar.

► Prof. Makoto Taniguchi, RIHN

12:30 Close of Seminar.

NOTES

THURSDAY • 09:00-12:30

STOCKHOLM WATER PRIZE SEMINAR:
THE POWER OF WATER

K2

Convenor: **SIWI**
Co-Convenor: **KVA**

Global water demand as well as variability is rising. The right amount of good quality water at the right time is a simple wish - and an increasingly tricky task. Around 90 per cent of the worst disasters over the last century were caused by hydro-meteorological events and the global thirst for water is set to grow by 55 per cent to 2050.

To build more resilient societies we need infrastructure, both grey and green, to protect us from the vagaries of the weather and low-carbon energy to move and treat water. At the same time, water is an increasingly important input in energy production and the net benefits of dams are being questioned. How shall the world balance these forces? How can we harness the power of water?

The Stockholm Water Prize seminar brings together Laureates and influential scientists and practitioners in a session that explores the opportunities and challenges for a water and energy secure world.

- 08:45 Seats are Taken.
- 09:00 H.M. King Carl XVI Gustaf Arrives.
- 09:05 Introduction.
 - Mr. Jens Berggren, SIWI
- 09:10 Dr. John Briscoe, Harvard University, 2014 Stockholm Water Prize Laureate
 - Ms. Debra Tan, China Water Risk
 - prof. Jerson Kelman, Federal University of Rio de Janeiro
 - Ms. Maria van der Hoeven, International Energy Agency
 - Mr. Jeremy Bird, Director General, IWMI, 2012 Stockholm Water Prize Laureate
- 10:00 Coffee Break.
- 10:30 Seats are Taken.
- 10:35 Panel Discussion.
 - Dr. John Briscoe, Harvard University, 2014 Stockholm Water Prize Laureate
 - Ms. Debra Tan, Director, China Water Risk
 - Prof. Jerson Kelman, Professor, Federal University of Rio de Janeiro
 - Ms. Maria van der Hoeven, Executive Director, International Energy Agency
 - Mr. Jeremy Bird, IWMI, 2012 Stockholm Water Prize Laureate
- 12:00 Close of Seminar.

STRENGTHENING RESILIENCE THROUGH WATER AND ENERGY EFFICIENCY IN IRRIGATION

K22/
K23

Convenor: **GIZ**

Co-Convenor: **UNESCO-IHE**

The efficient use of water and energy for food production is essential to improve food security and strengthen resilience against the impacts of climate change. Renewable energy and efficient irrigation technologies as well as innovative agricultural practices are the backbone for a climate-sensitive development in irrigation and sustainable rural development.

Pros and cons of proven and new concepts like the use of renewable energy in irrigation, good practices in planning and technical and agronomic implementation, the potential of the revitalisation of traditional water and energy efficient flood-based irrigation systems will be discussed using case studies from

a range of countries. They will show synergy potentials at the energy-water-food security nexus and options to improve resilience and food security at household and national level.

Additionally, these options offer mitigation co-benefits such as reduced methane emissions and carbon sequestration. Furthermore, a new manual on “Good practices in small scale irrigation” will be launched, which shows the experiences in small-scale irrigation in Mali. A training module on water management elaborated by UNESCO IHE and GIZ will be presented and discussed.

09:00 Welcome and Opening Remarks.

► Ms. L. Neumann, BMZ

Efficiency Potentials

09:10 Efficiency Potentials at the Energy-Water Nexus in Agricultural Irrigation.

► Dr. Holger Hoff, SEI

09:45 Adding Food to the Energy-Water Agenda: Examples of Energy- and Water-Efficient Agricultural Irrigation.

► Ms. K. R. Boers, GIZ

10:25 Coffee Break and Presentation of Publications Tools.

10:55 Flood-based Irrigation and the Role of Capacity Building.

► Ms. M. Wegner, GIZ

11:20 Panel Discussion.

Moderator: Prof. Charlotte de Fraiture, UNESCO-IHE
Knowledge Management

12:10 Book Launch: “Presentation of the Manual of Good Practices in Small Scale Irrigation” and “WOCAT International: A Knowledge Management Platform Goes New”.

► Mr. Dieter Nill, GIZ

► Ms. A. von Lossau, GIZ

12:30 Close of Seminar.

NOTES

CLIMATE, ENERGY, FOOD AND WATER: MANAGING THE LINKAGES

T3

Convenor: **ANU**Co-Convenor: **USSC**

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The first half of the session will have four presentations from book contributors from Australia, Sweden and the USA on their key findings. The presentations will address both developed and

developing countries. The session will conclude with reflections from the FAO plus discussion with the audience.

12:45 Welcome and Opening Remarks.

► Dr. Jamie Pittock, USSC, Australia

12:50 The Nexus in China, France, India, and the United States.

► Mr. Paul Faeth, Energy, Water & Climate, Institute for Public Research, Center for Naval Analyses, USA

13:05 Food Waste and the Nexus.

► Prof. Jan Lundqvist, SIWI

► Dr. Jakob Lundberg, We Effect

13:15 Key Findings.

► Dr. Jamie Pittock, USSC, Australia

13:25 Reflection from the FAO.

► Dr. Olçay Ünver, FAO

► Mr. Jean-Marc Faurès, FAO

13:30 Panel Discussion.

13:40 Summary.

13:45 Close of Side Event.



Photo: Declan Hearne, Interantional WaterCentre

THURSDAY • 14:00-17:30

DESIGNING OUR WATER ENERGY FUTURE: CHALLENGES, OPPORTUNITIES AND LEADERSHIP NEEDED

T2

Convenor: **IWC**Co-Convenors: **A4A, IEC, NWP, Rebel, VEI and Wetsus**

In an increasingly resource-challenged world, what will our water-energy future look like? How can we deliver efficient and viable services to all in equitable and sustainable ways? To what extent are current trends, policies and service delivery models in the energy sector relevant to the water sector, and vice versa? What are the critical challenges preventing integrated decision-making and effective investment?

This seminar will explore reasons for and challenges to integration, with a view to identifying the capacities that will be needed to catalyse change and build synergies across these divergent yet interconnected sectors.

Envisioning the future from different perspectives, private, public and academic panellists from the water and energy sectors

will challenge current paradigms in a highly interactive session. Examples will draw from developing countries where vulnerable communities have the most to lose from mismanagement of water and energy resources, but also the most to gain from improved service delivery.

Panel-audience and small group discussion will explore necessary changes to support integration in decision-making and effective business models. Reflection upon critical skills of future leaders who can drive these changes will bring the session to a close. Outputs will be encapsulated in a discussion paper to further the dialogue.

14:00 Welcome and Opening Remarks.

► Mr. Mark Pascoe, IWC

14:10 Future Trends and Scenarios, Challenges of the Water|Energy (W|E) Nexus.

The Challenges and Barriers Inhibiting Effective W|E Decision-Making

14:30 Introduction to Session.

► Mr. PvKoppen, NWP

14:40 Access and Services for Many, Invited Speaker from Water and Sanitation for the Urban Poor.

14:50 Social Entrepreneurship in Rural Settings with Energy for the BOP.

► Speaker from SELCO (tbc)

15:00 Scaling Sanitation Bringing Market and Finance Together BOP Convention Matchmaking Event as Final Phase of a Relay Race (estafetta).

► AquaforAll

15:10 Panel Discussion.

15:30 Coffee Break.

Innovative Business Models In W|E to Facilitate Affordable Services for All

15:40 Introduction to Session.

► Mr. Declan Hearne, IWC

15:50 Affordable Financing Models.

► WB (tbc)

16:00 Social Impact Investments – Defining Models That Address Risk and Drive Innovation Water And Energy Service Delivery International EnergyCentre.

16:10 Sustainable Energy and Water Supply – Innovative Business Case for Communities in Indonesia.

► Mr. Bart Budding, Rebel

► Mr. Stefan Nijwening, Rebel

16:20 Panel Discussion.

Reflection Session: Capacity Gaps and Skill Sets for Future Leaders

16:40 Panel Discussion: Capacity Gaps and Skill Sets for Future Leaders,

► UNESCO-IHE (tbc)

► Advisory board UN Secretary for Energy (tbc)

► Global Water Development Partners (tbc)

17:10 Closing Remarks.

► Mr. Gerhard van den Top, Vitens Evides

► Mr. Mark Pascoe, IWC

17:30 Close of Seminar.

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THURSDAY • 14:00-17:30

EARTH OBSERVATIONS (EO) IN SUPPORT OF
SUSTAINABLE WATER MANAGEMENT

K11

Convenors: **Cap-Net UNDP and ESA**Co-Convenor: **ITC**

The seminar will present the collaborative programme between Cap-Net UNDP and the TIGER initiative of the European Space Agency on capacity development in Earth Observation (EO) in support of Integrated Water Resources Management (IWRM).

The partners represent a combination of state of the art capacity development instruments and technical knowledge on the thematic subject. The seminar will showcase capacity development activities being implemented by the partners in Africa on various aspects of IWRM and EO tools through the regional centres related to the TIGER programme and the Cap-Net affiliated networks in Africa. In particular an open source Water Observation Information System and dedicated training material are available to develop the capacity of African water authorities to monitor and assess their water resources.

Applicability and suitability for other regions of the world are being assessed. Special attention will be given to EO to support energy relevant aspects such as hydropower in the context of IWRM at the river basin scale.

- 14:00 Introduction in Capacity Development in the Use of Earth Observations for Improved Sustainable Water Management – Why Is It Important?
 - Mr. Benjamin Koetz, ESA
 - Mr. Kees Leendertse, Cap-Net UNDP
- 14:20 Satellites – “Looking After Water”. Introductory Video on Earth Observation (EO) and Discussion.
 - Mr. Benjamin Koetz, ESA-TIGER
- 14:40 EO Software Tools for Water Management Purposes – Live Demonstration.
 - Mr. C. Tottrup, TIGER-Net
- 15:00 Capacity Development for EO & Water Management Testimonies of Learning Moments and Showcases.
 - Mr. Zoltan Vekerdy, TIGER Capacity Building Facility
 - Mr. Arno van Lieshout, ITC
 - Participants/Facilitators (tbc) in Cap-Net – TIGER Training Events
- 15:30 Panel Discussion.
- 15:50 Coffee Break.
- 16:05 Water from Space – A World Bank Perspective Information Requirements, Capacity Development.
 - WB (tbc)
- 16:25 TIGER Training Kit – Presentation of Training Material and Hands-On Examples TCBF.
 - Mr. Zoltan Vekerdy
 - Mr. Arno van Lieshout, ITC
- 16:45 Roundtable Discussions on Capacity Development Needs and How to Get Them.
 - Mr. Kees Leendertse, Cap-Net UNDP
- 17:20 Wrap-Up.
 - Mr. Kees Leendertse, Cap-Net UNDP
 - Mr. Benjamin Koetz, ESA-TIGER
- 17:30 Close of Seminar.

HYDROPOWER IN TRANSBOUNDARY RIVER BASINS: PRIVATE INVESTMENTS AND REGIONAL CROSS-SECTOR COOPERATION

K21

Convenors: **GIZ, DIE, ICPDR, MRC and UNECE**

Hydropower accounts for a significant share of the global power supply and is the world's dominant source of renewable electricity. Many hydropower projects are being developed on transboundary rivers. This adds an additional layer of challenges to sustainable river basin management.

One of the key challenges relates to the interests of the actors involved – especially private investors and operators and financial institutions on the one hand and basin-wide planning institutions, such as River Basin Organizations (RBOs), on the other – often diverging substantially within and across national

boundaries. A nexus approach can, however, help increasing the benefits from hydropower and enhancing sustainable resource utilisation while avoiding or minimizing potential negative side-effects.

By bringing together representatives from the private and public sector as well as from RBOs and their member states, the event aims at addressing these challenges and developing an innovative perspective and a joint private sector-RBO message on integrated water and energy development and management in transboundary river basins.

- | | |
|--|---|
| <p>14:00 Welcome and Opening Remarks.
Dr. Susanne Schmeier, GIZ</p> <p>14:05 Challenges and Opportunities in Private Sector-RBO Cooperation.
► Dr. Fritz Holzwarth, formerly BMUB
<i>RBOs and the Sustainable Management of Transboundary Rivers – How to Include the Private Sector?</i></p> <p>14:20 Engaging the Private Sector in Sustainable Hydropower Development in the Mekong River Basin.
► Mr. Voradeth Phonekeo, MRC</p> <p>14:30 The Guiding Principles for Sustainable Hydropower Development in the Danube River Basin – A Means for Engaging the Private Sector?
► Mr. Raimund Mair, ICPDR Secretariat</p> <p>14:40 A Quick Response to RBOs – the Private Sector Perspective.
► Mr. Jürgen Schuol, Voith Hydro (tbc)</p> <p>14:45 Q&A.
<i>Hydropower Development and the Private (State) Sector – Which Interest in Sustainable Water Resources Management?</i></p> <p>15:00 Engaging in Hydropower in the Mekong River Basin – Private Sector Experiences.
► Mr. Knut Sierotzki, Hydropower Asia and Russia, Pöyry Energy AG</p> | <p>15:10 Enhancing Hydropower Sustainability – The Role and Extent of Influence of an Equipment Supplier.
► Dr. Jürgen Schuol, Voith Hydro</p> <p>15:20 A Quick Response to the Private Sector – The Water Resources Governance Perspective.
► Mr. Bo Leibert, UNECE Water Convention Secretariat</p> <p>15:25 Q&A.</p> <p>15:40 Coffee Break.</p> <p>16:00 Panel Discussion: What is the Value of RBOs and the Private Sector Going Together?
► Mr. Ivan Zavadsky, ICPDR Secretariat
► Mr. Hans Guttman, MRC Secretariat
► Dr. Otto Pirker, Verbund Austria
► Mr. Stephen Sparkes, Statkraft
► Mr. Cameron Ironside, IHA
► Mr. George Constantin, Ministry of the Environment, Romania</p> <p>16:45 Closing Remarks: Hydropower in Transboundary Basins – The Way Ahead for RBOs and the Private Sector.
► Dr. Waltina Scheumann, DIE
► Dr. Susanne Schmeier, GIZ</p> <p>17:00 Close of Seminar.</p> |
|--|---|

THURSDAY • 14:00-17:30

INNOVATIONS FOR MORE FOOD WITH LESS WATER AND LESS ENERGY

T5

Convenor: **LI**Co-Convenors: **ADB, FAO, IWMI and WB**

Results from recent case studies of large canal systems will be presented, illustrating innovative diagnostic techniques and approaches to management reforms and irrigation modernisation including conjunctive management of surface/groundwater.

Participants will share current best practices and knowledge products, and generate multi-disciplinary recommendations for management, institutional reform, and physical infrastructure modernisation.

14:00 Welcome and Opening Remarks.

- ▶ Mr. Lance Gore, ADB
- ▶ Mr. Michael Chegwin, LI

14:15 Group Work on Themes as Follows:

Past and Ongoing Modernisation Efforts in the Asian Region

Moderator: Mr. Adrian Young, LI

Pros, Cons and Data Constraints of RS[1] as a Tool Assisting in the Assessment of POW[2]

Moderator: Mr. Remco Dost, eLeaf

Pros, Cons and Data Constraints of Performance Benchmarking as a Modernisation Tool

Moderator: Dr. Beau Freeman, LI (tbc)

Practice of Adaptive Learning in Modernisation Implementation

Moderator: Mr. Malik Ravinder, IWMI

Moderator: Mr. Lance Gore, ADB

Approaches to Institutional Reforms: Approaches to Institutional Reforms that Engage Stakeholders as Active Participants

Moderator: Dr. Asad Zaman, LI

and Mr. A. K. M. Fazlul Hoque Majumder, BETS

14:35 Reporting Back from Themes.

15:00 Panel Discussion and Q&A.

15:25 Wrap-Up.

15:30 Close of Seminar and Coffee Break.

The session will continue with the following seminar (see below).

PUTTING DRIP IRRIGATION IN PERSPECTIVE: REALITY CHECK ON THE PROMISES OF A TECHNOLOGY

T5

Convenors: **IRD and WUR**Co-Convenors: **AFEID-ICID, CIRAD, FAO, iDE and IFAD**

Is drip irrigation delivering on its promises? Join Wageningen University, IRD and partners in this event where farmers, industrials, policy-makers, researchers and development actors

discuss their realities of working with this innovative technology and understand when and how it can deliver on key challenges in the water-food-energy nexus.

16:00 Welcome and Opening Remarks.

- ▶ Dr. Jean Philippe Venot, IRD and WUR

16:10 Smallholder Drip Irrigation in the Developing World.

- ▶ Mr. Gauthier Ricordeau, Agronome and Vétérinaires sans Frontières

16:20 Converting to Drip: Lessons from Public Irrigation Systems in the Mediterranean Region

- ▶ Mr. Jean-Marc Faurès, FAO

16:30 Accounting for Farmers Needs and Innovativeness in Engineering Drip Irrigation Systems.

- ▶ Ms. Maya Benouniche, CIRAD and IAV

16:40 Drip Irrigation Dissemination: Public and Private Sector Roles.

- ▶ Dr. Yoav Zeif, Netafim

16:50 Q&A.**17:00 Panel Discussion.**

- ▶ Mr Rudolph Cleveringa, GWP
- ▶ Dr. Peter Mc Cornick, IWMI
- ▶ Prof. Charlotte de Fraiture, UNESCO-IHE
- ▶ Mr. Jean-Marc Faurès, FAO
- ▶ Mr. Bob Nanes, iDE
- ▶ Dr. Christopher Neale, University of Nebraska
- ▶ Dr. Yoav Zeif, Netafim
- ▶ Prof. Margreet Zwarteveen, UNESCO-IHE

17:30 Close of Seminar.

NOTES

NEW CONCEPTS AND TECHNOLOGIES FOR
SANITATION IN EMERGENCY SETTINGS

K24

Convenor: **IFRC**Co-Convenors: **Oxfam, SuSanA, Swedish Red Cross and WASTE**

While water supply in emergencies has been substantially addressed by humanitarian agencies and the private sector, sanitation equipment needs have often been underserved.

This event will describe how humanitarian agencies have sought to increase private sector and academic engagement in developing sanitation equipment; the new concepts and technologies developed; how they performed in the field; and ask how the work can be taken forward. New technologies include equipment for wastewater treatment, desludging, toilets in difficult contexts, alternatives to traditional toilets, and handwashing.

The seminar will be convened by the International Federation of Red Cross and Red Crescent Societies (IFRC) in partnership with co-conveners Oxfam, WASTE, the Sustainable Sanitation Alliance (SuSanA) and the Swedish Red Cross. The IFRC, Oxfam GB, and WASTE will present the work they have undertaken as part of the Emergency Sanitation Project (ESP) to expand the range of emergency sanitation solutions available to the WASH sector. A panel discussion with the project members, Swedish Red Cross, SuSanA community and other sanitation experts will discuss the process and the future of emergency sanitation.

14:00 Welcome and Opening Remarks.

Progress to Date of the Emergency Sanitation Project

14:10 Lime and Yoghurt: WASTE's Efforts to Find Innovative Solutions in Emergency Sanitation.

► Mr. Jan Spit, WASTE

14:25 Higher Toilets and Firmer Foundations: Oxfam's New Sanitation Products.

► Mr. Angus McBride, Oxfam

14:40 The Limits of Worms: Setting the Boundaries for Sanitation in Emergencies.

► Mr. William Carter, IFRC

14:55 State of the Toilet Address: Are We Ready for the Next Big One?

15:30 Coffee Break.

Expanding the Emergency Sanitation Project

16:00 Brief Remarks and Summary of First Theme.

16:05 Panel Discussion: Addressing New Challenges and Broadening Partnership.

17:15 Wrap-Up.

17:30 Close of Seminar.

INTRODUCTION

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WEDNESDAY

THURSDAY

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GENERAL INFO

THURSDAY • 14:00-17:30

WATER AS ENERGY STORAGE FOR BETTER INTEGRATION OF RENEWABLES

T4

Convenor: **CEDREN**Co-Convenors: **IHA and UNU-FLORES**

The rapid development and increasing share of renewable energy from wind and photovoltaic power world-wide, raises new challenges to the energy systems. One of the major challenges is related to the variability and the unpredictability of wind and solar energy, and the potential imbalance between power production and electricity demand.

This imbalance will require increased need for storage of energy. Hydropower with reservoirs is the only renewable energy storage in wide commercial use. Hydropower reservoirs and pumped hydro are used for storing energy at multiple time horizons, ranging from minutes up to several years.

This seminar will focus on how we can better use reservoirs of water to improve integration of renewables, at the same time serving crucial society needs for secure supply of drinking water and water for irrigation. The seminar will focus on the need for storage of water and energy, the potential for better operation of existing reservoirs and the possibilities of retrofitting existing reservoirs to optimize the water use for all sectors. The seminar will also focus on the potential and challenges for creating new multi-purpose reservoirs, taking into account both the increased need for water storage to many sectors, as well as the affected ecosystems.

Different Perspectives on Water as Energy Storage

- 14:00 Introduction to Seminar.
► Mr. Atle Harby, Cedren
- 14:05 The Role of Hydropower in Delivering Energy Services While Considering Other Water Needs.
► Mr. Richard Taylor, IHA
- 14:20 Water for Energy Storage Supports the Integration of Solar and Wind Power
► Mr. Atle Harby, Cedren
- 14:35 Water Storage: Serving Various Uses Calls for a Nexus Approach.
► Mr. Reza Ardakanian, UNU-FLORES
► Mr. Stephan Huelsmann, UNU-FLORES
- 14:50 Q&A.
- 15:15 Coffee Break.
- Case Studies and Panel Discussion*
- 15:45 The Island El Hierro, Spain: 100 Per Cent Renewable Energy by Integrating Wind and Solar Energy With Pumped Hydro on a Small Scale.
► (tbc)

- 16:00 Integration of Wind and Hydro Power in Ethiopia: Large Opportunities for a Developing Country.
► Mr. Tolawak Gurmesa Amenu, Norwegian University of Science and Technology
► Mr. Ånund Killingtveit, Norwegian University of Science and Technology
- 16:15 Water and Energy Services from Dams in the Zambezi River Basin (Mozambique): Challenges and Opportunities.
Mr. Boaventura Chongo Cuamba, Eduardo Mondlane University, Mozambique
- 16:30 Panel Discussion.
Moderator: Mr. Richard Taylor, IHA
► Convening Organisations
► Presenters of Case Studies
► Three Persons from Interested Seminar
► Participants (Selected Based on Submitted Questionnaire)
- 17:20 Wrap-Up and Final Remarks.
► UNU-FLORES
- 17:30 Close of Seminar.

STOCKHOLM WATER PRIZE

GIANT IN GLOBAL WATER MANAGEMENT WINS 2014 STOCKHOLM WATER PRIZE

Professor John Briscoe, a native of South Africa, is named the 2014 Stockholm Water Prize Laureate for his unparalleled contributions to global and local water management, inspired by an unwavering commitment to improving the lives of people on the ground.

John Briscoe lives in the United States, where he teaches at Harvard University. Upon receiving the news, Professor Briscoe said he was "Very surprised and honored. I am delighted for the recognition this gives to thinking practitioners, of which I consider myself one."



Photo: Jon Chase Harvard University

"Prof. John Briscoe has combined world-class research with policy implementation and practice to improve the development and management of water resources as well as access to safe drinking water and sanitation."

Stockholm Water Prize Committee

NOMINATE FOR THE 2015 STOCKHOLM WATER PRIZE

www.siwi.org/prizes/stockholmwaterprize

Deadline is September 25, 2014.

STOCKHOLM WATER PRIZE FOUNDERS

Borealis & Borouge • DuPont • ERV • Fujitsu • Grundfos
HP • Kemira • KPMG Sweden • Ragn-Sells • Scandic
Scandinavian Airlines (SAS) • SJ (Swedish Railways)
Snecma/Safran • Water Environment Federation (WEF)
Xylem • Ålandsbanken

SUPPORTERS

Grand Hôtel and Orrefors

In collaboration with the City of Stockholm



FRIDAY September 5

MORNING

Plenary	Speakers	Room	Page
Closing Plenary: High Level Panel	Mr. Torgny Holmgren, Ms. Maria van der Hoeven, Ms. Laurence Tubiana, Ms. Amina J Mohammed, Ms. Karin Lexén and Dr. Robert Bos	K1	134
Closing Plenary: reporting Back	Ms. Karin Lexén, Dr. Torkil Jønch Clausen and Mr. Torgny Holmgren	K1	135



FIELD VISITS CLOSING THE LOOP – CREATING ENERGY FROM WASTE and VISIT THE MOST SPECTACULAR OUTDOOR WASTEWATER SYSTEM IN SWEDEN – THE WETLAND ALHAGEN IN NYNÄSHAMN.
More information on page 136.



WASH MEDIA AWARDS and BEST POSTER AWARD.
Read more on page 139.

Photo: Erik Freudenthal



FRIDAY 09:00-13:00

CLOSING PLENARY: HIGH LEVEL PANEL

Room
K1

09:00

Welcome by Chair**Mr. Torgny Holmgren**Executive Director
Stockholm International Water Institute

09:05

Water-Energy: Identifying Risks and Opportunities**Ms. Maria van der Hoeven**Executive Director
International Energy Agency

09:25

Linking Water to the Climate Agenda and to the 2015 Climate Agreement**Ms. Laurence Tubiana**Special Representative for the 2015 Paris
Climate Conference COP 21 France (tbc)

09:45

Water and the Post-2015 Sustainable Development Agenda: Challenge or Opportunity**Ms. Amina J Mohammed**United Nations Secretary-General's Special
Advisor on Post 2015 Development Planning

10:05

Stockholm Statement 2014**Ms. Karin Lexén**Director, World Water Week & Prizes
and International Processes
Stockholm International Water Institute

10:15

Best Workshop Poster Award**Dr. Robert Bos**Representative, Scientific Programme
Committee of the World Water Week

10:20

WASH Media Awards

10:30

Coffe Break**The Closing Sessions**

The aim of the Closing Session is to report on and summarise a week of constructive dialogues and joint achievements. The session will introduce and bridge over to the theme of 2015 World Water Week; Water and Development. This theme overlap with 2014 World Water Week theme as water resources and energy are two main cornerstones of sustainable growth, inclusive development and poverty reduction.

World leading experts will speak on the opportunities that lie ahead to address the challenges of supplying sustainable energy to all while taking action to combat climate change, without overexposing our limited water resources.

The session will as well address the important role of water within the global climate agenda and discuss the issues at stake for the 2015 Climate Agreement.

The conference delegates will in engaging, interactive discussions get the first hand essence captured by the World Water Week Rapporteur teams that have followed the week at close range. They will present the latest developments, best cross-sectoral solutions and identify efficient and sustainable energy and water action. An additional scientific synthesis will be presented through a summary of the abstracts submitted to the workshops.

The Scientific Programme Committee that organises the workshops of World Water Week will present the award for Best Workshop Poster during this session.

During the session, the 2014 Stockholm Statement will be presented.

Further, the WASH Media Awards Ceremony will honour journalists who have contributed to raising awareness on water and sanitation, with awards presented in six categories.



CLOSING PLENARY: REPORTING BACK



11:00
Welcome by Moderators
Ms. Karin Lexén

Director, World Water Week & Prizes
and International Processes
Stockholm International Water Institute



Dr. Torkil Jønych Clausen
Chair, Scientific Programme Committee
of the World Water Week



12:40
Overarching Conclusions
Dr. Torkil Jønych Clausen
Chair, Scientific Programme Committee
of the World Water Week



12:45
Closing Remarks
Mr. Torgny Holmgren
Executive Director
Stockholm International Water Institute

11:10
Reporting Back from
Rapporteurs Teams

13:00
Close of Session



Photos: Mikael Ullén

2014 WORLD WATER WEEK REPORTING TEAMS

EQUITABLY BALANCING COMPETING DEMANDS

Lead Rapporteurs

- Prof. Gustaf Olsson, Lund University and Exeter University
- Ms. Dawn McGregor, China Water Risk

Junior Rapporteurs

- Mr. Godwin Chinemerem
- Mr. Luca Di Mario
- Mr. Elwain Edgardo Fiallos Lopez
- Ms. Sachiko Ishihara
- Mr. Jonas Torrens

INTEGRATING WATER AND ENERGY POLICIES

Lead Rapporteurs

- Ms. Angela Klauschen, GWP
- Mr. Stefano Barchiesi, IUCN

Junior Rapporteurs

- Ms. Katrin Eitrem Holmgren
- Ms. Viviane Passos Gomes
- Ms. Lesley Poirés
- Mr. Benjamin Roberts-Pierel
- Ms. Line Maj Thomsen

MANAGING ENERGY AND WATERS ACROSS BORDERS

Lead Rapporteurs

- Ms. Carol Chouchani Cherfane, UN-ESCWA
- Dr. Susanne Schmeier, GIZ

Junior Rapporteurs

- Ms. Kata Molnar
- Ms. Shen-Hui Yang
- Ms. Maja Hemlin-Söderberg
- Ms. Aamira Fatima
- Ms. Emma Li Lyngedal

RESPONDING TO GLOBAL CHANGE

Lead Rapporteurs

- Ms. Antonia Sohns, WB
- Dr. Paul Yillia, IIASA

Junior Rapporteurs

- Mr. Francisco Mieres
- Mr. Simon Damkjaer
- Ms. Silvia Lohfink
- Ms. Rafaela Flach
- Mr. Jakub Kocanda

FIELD VISITS & EXCURSIONS

SUNDAY EVENING • 19:00-21:00

Under the Bridges of Stockholm

See Stockholm from the water. This sightseeing boat tour will take you under fifteen bridges and passes through two of the locks connecting the Baltic Sea with the lake Mälaren. Passing the Old Town, the island of Södermalm, Lilla and Stora Essingen, the new Hammarby Sjöstad and the green areas of Djurgården – you will get a feel for the islands making Stockholm such a beauty on water. A truly memorable tour!

Price: 300 SEK (*Limited tickets are available at the Registration Desk at Stockholmsmässan*)

Dress code: Comfortable clothing

Transportation to Strömkajen included. The boat trip ends at Strömkajen.

FRIDAY AFTERNOON • 13:15-18:00

Visit the Most Spectacular Outdoor Wastewater System in Sweden – The Wetland Alhagen in Nynäshamn

Join us and experience the spectacular wetland in Alhagen, Nynäshamn. The wetland is part of the municipal wastewater treatment plant and a recreation site for about 20,000 residents. Learn more about how this low cost, natural treatment system, contributes to beautiful sceneries, biodiversity and an excellent water quality to the Baltic Sea.

Hosted by: Swedish International Agricultural Network Initiative, SEI, Water Revival System and Nynäshamn Municipality

Price: 450 SEK (*Limited tickets are available at the Registration Desk at Stockholmsmässan*)

Transportation, lunch box and refreshments included

Water, Energy and Urban Development: The Potential for Integrated Approaches – The Real Case of Hammarby Sjöstad

This visit will build on the morning session of the workshop with the same title. It will present a real case study of an integrated approach in water, energy and urban development. By visiting Stockholm's icon for sustainable urban development, Hammarby Sjöstad, you will be able to listen to and see past successes and failures within environment, water, energy and waste management.

Hosted by: GlashusEtt

Please note that there are a limited number of tickets. Priority will be given to participants of the morning sessions of the Workshop.

Transportation and refreshments included

WEDNESDAY AFTERNOON • 14:00-17:30

Closing the Loop – Creating Energy from Waste

Visit Henriksdal wastewater treatment plant, one of the largest underground treatment plants in Europe. Come witness the clear link between water and energy as wastewater from the greater Stockholm area is turned into refined biogas. The biogas is used as fuel for the busses throughout Stockholm.

Hosted by: Stockholm Vatten AB (Stockholm Water Company)

Price: 400 SEK (*Limited tickets are available at the Registration Desk at Stockholmsmässan*)

Transportation and refreshments included

FRIDAY AFTERNOON • 13:45-18:00

Photo: Gustavo Bueso Pafgett, SXC

SOCIAL EVENTS

MONDAY EVENING

The City of Stockholm Welcome Reception

The President of the Stockholm City Council, Mrs. Margareta Björk, is pleased to host an opening reception for all World Water Week participants. Meet your colleagues in Stockholm's beautiful City Hall, with its imposing facades and interior in National Romantic style. The event is hosted by the City of Stockholm.

Time: 19:30-21:30
Venue: Stockholm City Hall
Dress code: Business casual

TUESDAY EVENING

Mingle & Dance at Stockholmsmässan

You are cordially welcome to attend the informal, relaxed but very important gathering for World Water Week's participants: the Mingle & Dance! This year the Mingle & Dance will be available for all registered participants at no extra cost and arranged at the World Water Week's venue – Stockholmsmässan. Light dinner, entertainment, dance floor, bar and a great atmosphere will be provided.

Time: 19:00-00:00
Venue: Stockholmsmässan
Dress code: Smart casual

THURSDAY EVENING

An evening at Aquaria Water Museum

We welcome you to a fantastic evening at Aquaria Water Museum. This event will take you on a unique and fascinating journey through humid rainforests, tropical oceans, rivers and the Baltic Sea where you will follow the water from source to sea. After the tour you have the opportunity to mingle in the museum's restaurant, enjoying both delicious Swedish specialties and a stunning view of Stockholm.

Time: 18:30-21:00
Price: 420 SEK
Venue: Aquaria Water Museum
Dress code: Casual

Mingle food is available

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PRIZES AND AWARDS

STOCKHOLM WATER PRIZE

Stockholm Water Prize is the world's most prestigious annual prize to honour outstanding achievements in water-related activities. The prize is awarded to visionary individuals and organisations whose accomplishments contribute to developing and protecting the world's water resources, and improving the health of inhabitants and ecosystems.

The 2014 Stockholm Water Prize will be awarded to Professor John Briscoe on Thursday September 4 in the Stockholm City Hall during a Royal Award Ceremony. H.M. King Carl XVI Gustaf of Sweden will present the prize.

Participants will also have the chance to learn more about Professor Briscoe's work in the Laureate Lecture during the Opening Plenary and during the Stockholm Water Prize seminar.

AWARD CEREMONY AND ROYAL BANQUET

THURSDAY, SEPTEMBER 4

Time • 16:30
Price • 3,000 SEK
Contact • katarina.andrzejewska@siwi.org
Venue • City Hall
Dress code: Black Tie

STOCKHOLM JUNIOR WATER PRIZE

For the 18th year since its inception, Stockholm Junior Water Prize will bring together some of the world's brightest young minds in the Swedish capital. Each year, thousands of students from all over the globe enter national competitions in the hope of making it to the international final in Stockholm. The competition aims to encourage young people's interest in water and the environment, and is open to students who have conducted water-related projects and are aged between 15 and 20. The winner is announced and awarded during the World Water Week in Stockholm. H.R.H. Crown Princess Victoria of Sweden is the Patron of the Stockholm Junior Water Prize and will present the prize to the winners.

AWARD CEREMONY

WEDNESDAY, SEPTEMBER 3

Time • 18:30
Venue • Grand Hôtel



"Prof. John Briscoe has combined world-class research with policy implementation and practice to improve the development and management of water resources as well as access to safe drinking water and sanitation."

The Stockholm Water Prize Committee



GET INVOLVED IN THE 2015 STOCKHOLM JUNIOR WATER PRIZE

More information on www.siw.org/prizes/stockholmjuniorwaterprize

PHOTO: 2013 STOCKHOLM WATER PRIZES LAUREATES



“eThekweni has championed the approach to provide sufficient water to sustain human life, as expressed in the South African constitution, now embedded in national policy. The methods used and results achieved by eThekweni Water and Sanitation serve as a sterling example for the many communities worldwide facing similar challenges,”

The Stockholm Industry Water Award Committee



NOMINATE FOR THE 2015 STOCKHOLM INDUSTRY WATER AWARD

Deadline is November 15, 2014. Nominate on www.siwi.org/prizes/stockholmindustry-wateraward

NOMINATE FOR THE 2015 STOCKHOLM WATER PRIZE

Deadline is September 25, 2014. Nominate on www.siwi.org/prizes/stockholmwaterprize

STOCKHOLM INDUSTRY WATER AWARD

The Stockholm Industry Water Award was established in 2000 to stimulate and celebrate outstanding water achievements by companies in improving production, managing risks, finding solutions and contributing to wise water management.

At the Award Ceremony the 2014 winner, eThekweni Water and Sanitation from South Africa, will receive the Award for its transformative and inclusive approach to providing water and sanitation services.

For the full programme of the Award Ceremony and seminar, please see page 73.

AWARD CEREMONY

TUESDAY, SEPTEMBER 2

Time • 14:30

Venue • K1, Stockholmsmässan

BEST POSTER AWARD

An important part of the World Water Week workshops is the digital poster exhibition, where abstracts are presented in poster format. The most informative, innovative and well-designed poster is honoured with the “Best Poster Award”. A jury selects the best poster based on news value, efficiency on conveying the message, scientific content and design.

AWARD CEREMONY

FRIDAY, SEPTEMBER 5

Time • Closing Plenary

Venue • K1, Stockholmsmässan

WASH MEDIA AWARD

WASH Media Awards recognise and support the crucial role of media in raising awareness of the importance of water, sanitation, and hygiene services. It aims to promote coverage of WASH issues in the local, national and international media to have a positive influence on decision-makers, the private sector, the civil society as well as individuals and households. The WASH Media Awards Ceremony will present awards in six categories during the Closing Plenary. Launched in 2002 by Water Supply and Sanitation Collaborative Council (WSSCC), WASH Media Award is presented in collaboration with the Stockholm International Water Institute (SIWI).

AWARD CEREMONY

FRIDAY, SEPTEMBER 5

Time • Closing Plenary

Venue • K1, Stockholmsmässan

GENERAL INFORMATION

VENUE AND REGULATIONS

Organisers

2014 World Water Week in Stockholm is hosted and organised by the Stockholm International Water Institute (SIWI).

Venue

2014 World Water Week in Stockholm will be held at Stockholmsmässan in Älvsjö, which is located approximately 10 minutes by car and public transport from the centre of Stockholm.

Certain activities, such as the Stockholm Water Prize Award Ceremony, the Royal Banquet and the Stockholm Junior Water Prize Ceremony and other social events and field visits, take place at other sites in Stockholm. These are indicated in this programme.

The venue address is:

Stockholm International Fairs (Stockholmsmässan)
Mässvägen 1, SE-125 80 Älvsjö, Sweden
Phone: +46 8 749 41 00

Language

The official language of the World Water Week is English, which will be used for all presentations and printed material. Simultaneous interpretation will not be available.

Tourist Information

For general queries regarding your stay in Stockholm, please note that there is an information desk located in the centre of the entrance hall. At the information desk you will find maps, receive information regarding the venue facilities as well as tourist information about Stockholm and its sites.

Room capacity and fire regulations

Please be aware that according to Swedish law, once the room capacity is full we can not let more people in. The room capacity is regulated by the number of chairs, no standing persons are allowed. Make sure you are on time for your specific event since the seating is limited.



TRAVEL FROM THE CENTRAL RAILWAY STATION IN STOCKHOLM TO AND FROM STOCKHOLMSMÄSSAN IN ÄLVSJÖ

Stockholm Local Travel Card: Access Card

A travel card is included in the participant fee for the days you are registered. This card entitles you to use Stockholm's public transportation system, and will be handed out at the registration desk. The card entitles you to unlimited travel by subway, bus and commuter train within the whole of Stockholm County, excluding travel with Arlanda Express.

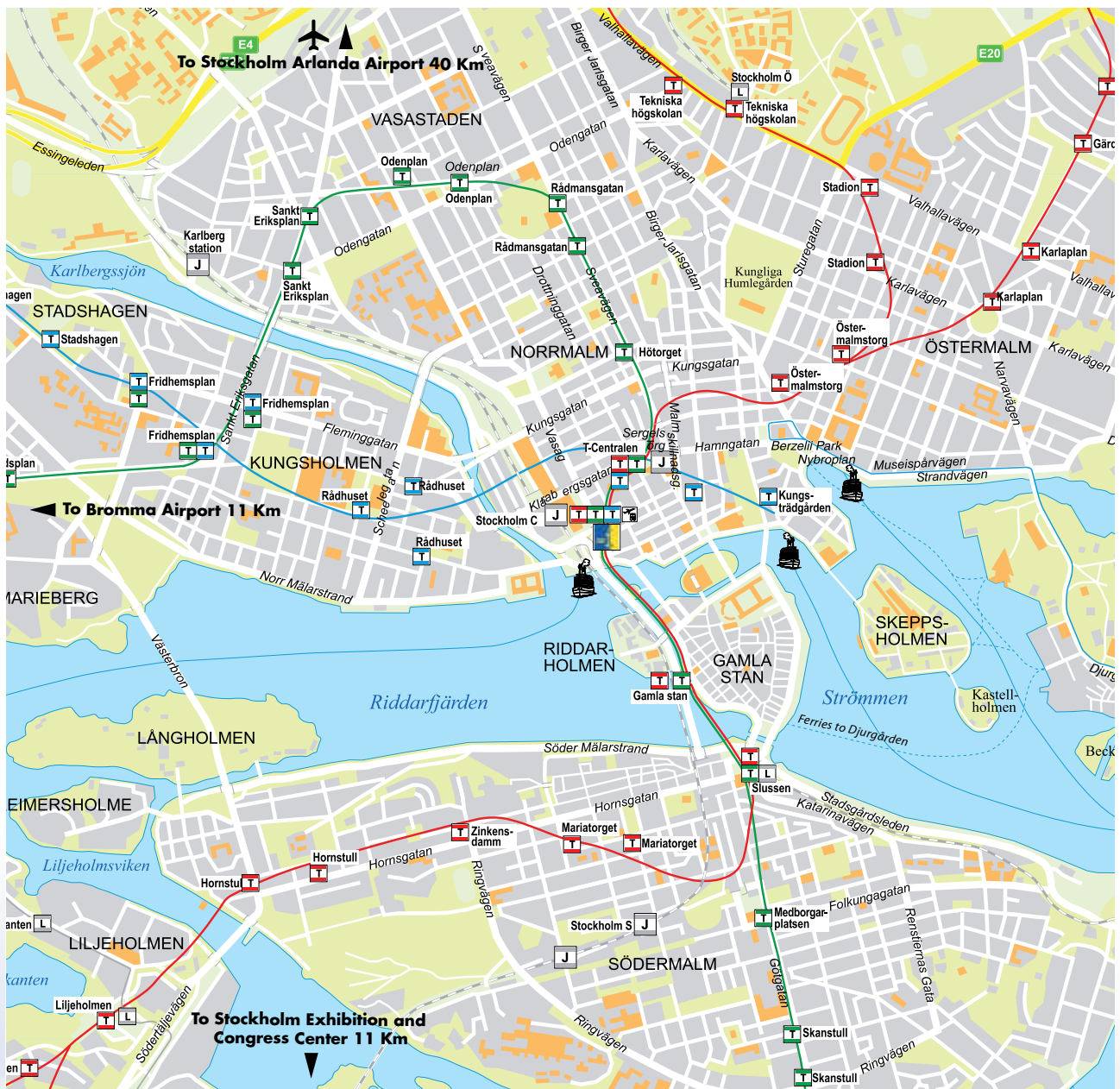
Taxi

Trips to and from Arlanda airport should cost approximately SEK 500 each way. The trip takes about 40 minutes. Recommended taxi companies, with a set price, include "Taxi Stockholm," "Taxi Kurir" and "Taxi o2o". Be sure to check the price with the driver in advance. Major credit cards are accepted for payment.



Photo: iStock

STOCKHOLM CITY MAP



WE VALUE YOUR OPINION!

The World Water Week is striving to be a better and more valuable meeting each year. Your feedback helps us do so.

Please fill out the evaluation:

www.surveymonkey.com/s/2014Week

Photo: Stockholmsmässan

2014 WORLD WATER WEEK TEAM

The Stockholm International Water Institute (SIWI) organises and hosts the World Water Week in Stockholm. The World Water Week Team is comprised of:

- Ms. Karin Lexén, Director, World Water Week and Prizes and International Processes
- Ms. Ania Andersch, Logistics and Exhibition
- Ms. Katarina Andrzejewska, Logistics and Social Events
- Mr. Jens Berggren, Stockholm Water Prize and Stockholm Industry Water Award
- Ms. Ellen Berntell, Invitations
- Mr. Erik Freudenthal, Speakers' Room

- Ms. Kristina Johansson, Stockholm Junior Water Prize Assistant
- Ms. Cajsa Larsson, Stockholm Junior Water Prize
- Ms. Irina Macharchuk, Closed Meetings, Excursions & Volunteers
- Mr. Adrián Puigarnau, Content and Programme
- Ms. Ingrid Stangberg, Seminars and Side Events, Young Professionals
- Ms. Annie Strand, Workshops and Field Visits
- Ms. Elin Weyler, Reporting
- Ms. Sofia Widforss, Plenary Sessions

EVERY EFFORTS MATTERS – A MORE SUSTAINABLE WORLD WATER WEEK

Our commitment

As the organiser SIWI is keen to offer you an exciting programme, but also to involve all participants in our work towards reducing the environmental impact of our meeting. In collaboration with our partners and local suppliers we have implemented a number of efforts in order to make World Water Week more sustainable:

- Including public transportation card in the registration fee.
- Selecting eco-labeled hotels.
- Give-away a refillable water bottle and having water stations at the venue.
- Serving fair-trade and organically produced food and drinks certified by KRAV and Svanen (Swedish and Nordic eco-labels).
- Selecting food with low environmental and water impact.
- Recycling at the venue.
- Measuring the amount of waste from the conference, and taking action to minimise it in the future.
- Moving towards a Paper Less Conference, offering a Resource Center for downloading material instead of print copies.

Your contribution

- *Refill your water bottle.*
All participants will receive a conference bag containing a refillable water bottle that can be filled up with drinking water at various water stations around the venue.
- *Pack your own conference bag.*
Usually the conference bag contains various publications such as final programme, list of participants, abstract volume and a thematic report. This year we will offer the same publications but invite you to "pack your own bag" to ensure that you only get the material that you are interested in reading. This way you contribute to minimise the waste!



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With thanks to



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