

TOPIC SESSION REPORT	Chair: Reporter:
<p>Theme: Advancing Human Development and MDGs</p> <p>Thematic coordination group:</p>	<p>Thematic coordination lead:</p> <p>Organization:UN Water.....</p> <p>Name contact person: ...Pasquale STEDUTO.....</p> <p>e-mail:chair@unwater.org.....</p>
<p>Topic: Water for Energy / Energy for Water</p> <p>Topic Main Question: How can we harmonize water and energy policies?</p> <p>Topic coordination group:</p> <p>(1) <u>France Coordination for Water (PFE)</u>, SADC, PSI, WEC, IUCN</p> <p>(2) <u>World Bank</u>, Watergy, IHA, FAO</p> <p>(3) <u>EWP</u>, Japanese Ministry of Land, infrastructure and Transport, WBCSD, SUEZ Environment, CIHEAM</p>	<p>Topic coordination lead:</p> <p>Organization:Int. Hydropower Association (IHA).....</p> <p>Name contact person:Richard TAYLOR.....</p> <p>e-mail:rmt@hydropower.org.....</p>
<p>Key Topic Issues:</p> <p>Water and energy policies often conflict (impact on reaching targets and MDGs)</p> <p>Water and energy institutions, industries and markets are often disconnected</p> <p>Limited accounting for water in the energy sector, despite being a major user</p> <p>Need to factor climate change impact on the water and energy nexus</p> <p>Sustainability criteria (environmental, social and economic) required to address water and energy supply/demand</p> <p>Drivers for water and energy services are predominantly population growth and increasing living standards (before climate change)</p> <p>Communities without access to modern energy are likely to be those without access to water and sanitation also</p> <p>Water and energy resources are unevenly distributed, solutions are likely to be differentiated accordingly</p> <p>Appropriate (new) technologies can improve performance – new developments and synergies can reduce costs and impacts</p> <p>Surface water storage schemes also store energy – can influence mixed energy systems and water services</p> <p>Bioenergy (linkage with agriculture energy crops, biogas, traditional biomass, waste, etc.)</p> <p>Irrigation – pumping can be significant energy user (electric or diesel powered)</p> <p>Navigation – can significantly reduce energy consumption</p>	

Need to differentiate between consumption and use of water for energy (bioenergy versus hydropower)
 Water footprint different for each energy technology and service (transport, heating, power production)
 Energy recovery from water processing (target of energy neutrality in modern sanitation process)
 Role of renewable energy in treating and distributing water
 Reducing energy consumption in water recycling and desalination
 Energy availability and reliability essential for water services
 Energy can be 60-80% of water treatment cost – efficiency and recovery key to reducing costs
 Pricing water should incorporate the true (energy) cost

Cross-cutting issues: (bioenergy and agriculture – and – navigation and optimized use of water)

Sessions Ideas	Session Question(s)	Initial list of Stakeholders to be involved (to be completed after call for participation)	Stakeholder consultation process/meetings	Proposed Session Coordination and convening group
Title: Integrating water and energy policies to meet the MDGs	<p>Question: Where are there conflicts in current policy?</p> <p>What are the common drivers and solutions?</p> <p>How can policy support community orientated initiatives?</p> <p>Regional sensitivity: high – medium - low</p>	<p>Check Balance Regions: OK – Not OK Equity Gender – Youth – Ind. People</p>		<p>Organizations: <u>PFE</u>, SADC, PSI, WEC, IUCN</p> <p>Name contact person: Nathalie CHARTIER-TOUZE</p> <p>e-mail: nct.pfe@astee.org</p>

Sessions Idea	Session Question(s)	Stakeholders to be involved	Stakeholder consultation meetings	Proposed Session Coordination and convening group
Title: Sustainable use of water and energy resources	<p>Question: What criteria should be applied?</p> <p>What are the key indicators?</p> <p>How can performance be measured?</p> <p>What role can markets play in guiding performance?</p> <p>Check Regional sensitivity: high – medium - low</p>	<p>Check Balance Regions: OK – Not OK Equity: Gender – Youth – Ind. People</p>		<p>Organizations: <u>World Bank</u>, Watergy, IHA, FAO</p> <p>Name contact person: Daryl FIELDS</p> <p>e-mail: dfields@worldbank.org</p>
Sessions Ideas	Session Question(s)	Initial list of Stakeholders to be involved (to be completed after call for participation)	Stakeholder consultation process/meetings	Proposed Session Coordination and convening group
<p>Session Idea</p> <p>Title: Appropriate technologies to reduce the water and energy footprint</p>	<p>Question: How can the water sector minimize its demand on energy?</p> <p>How can the energy sector minimize its impact on water?</p> <p>What role can renewable energy play in the water sector?</p> <p>To what extent can in-land navigation reduce energy use in the transport sector?</p> <p>Check Regional sensitivity: high – medium - low</p>	<p>Check Balance Regions: OK – Not OK Equity: Gender – Youth – Ind. People</p>		<p>Organizations: <u>EWP</u>, Japanese Ministry of Land, infrastructure and Transport, WBCSD, SUEZ Environment, CIHEAM</p> <p>Name contact person: Tom VEREIJKEN</p> <p>e-mail: t.vereyken@ewp.eu</p>

Suggestions and Comments

Focus on Bioenergy in the Agriculture topic, or have a joint initiative between topics 2.2 and 2.3.