

World Water Forum 5 - Outline of session 2.2.1

Results of Topic 2.2 Preparatory Workshop, Stockholm, 21.08.2008

Theme 2: Advancing Human Development and the MDGs

Topic 2.2: Water for Energy, Energy for Water

1. Session title: Water and energy security for all: how to build new integrated policies?

2. Context:

The rising cost of energy and the food crisis have recently been put on the front of the media scene all over the world. As energy and water are interrelated (we use energy for water and water for energy), the water sector will also be impacted. The global demographic increase, the urbanization and the economic development will necessitate, in the coming decades, a growing availability of water and energy. Energy and water availability are fundamental to reach all the MDG's but reserves of traditional energy are being exhausted, global change is menacing the availability of water and both sectors are often mismanaged. However, water as a renewable resource of energy, is essential for numerous countries. We must build new policies to tackle the major challenges of energy and water security for all.

3. Objective:

Create awareness on the interrelation of water and energy policies and discuss the interest and the means to integrate them better. Illustrate the obvious conflicts between these two policies and their impact on food security and environment sustainability. Present success stories; propose tools of planning and recommendations to harmonize water and energy policies.

4. Key questions:

- ***What are the conflicts in current policies?*** Water and energy policies are rarely well coordinated and somehow appear to be in conflict. Growing crops for energy production requires land and water, agro-fuel is still controversial and its impacts on the water sector have not been explored significantly. Hydropower can have adverse impacts on water ecosystems when they are not designed and managed properly.
- ***What are the common drivers and solutions?*** Better harmonization is required to set up conditions which optimize water and energy sustainable use, notably their pricing. These sectors should explore performance indicators and assessment tools to assist in strategic planning and decision making. Their impact on other sectors, agriculture and food in particular, should be taken into consideration. There is a great need for water infrastructure in the world for hydropower and storage. Investments need to make energy production sustainable for the environment and participate to water-related disaster and water scarcity mitigation.
- ***How can policy support community orientated initiatives?*** It is important to create awareness for the water-energy nexus at all levels: local, national, regional, basin and international. Integrating the policies on water and energy at these different levels should aim to drive better choices on water and energy on the ground by individual communities.

5. Contact person:

Nathalie Chartier-Touzé, Executive Secretary of the French Water Partnership: nct.pfe@astee.org – tel: + 33 6 83 99 31 97

or Jean-Paul Rivaud, Ministry of Sustainable Development: jean-paul.rivaud@developpement-durable.gouv.fr, tel: +33 1 42 19 12 07

6. Members of the session group:

- M. J. Alberto Tejada-Guibert, UNESCO-IHP
- Dr Joerg Hartmann, WWF Dams Initiative - Germany

7. Any gaps or imbalances in session group membership?

The session group should include representatives of both the developed and developing world and balanced between different kinds of stakeholders.

8. How will session be structured?

The session will last 3 hours with simultaneous translation in English and French (tbc).

| Time | Issue | Speakers |
|------|---|--------------------|
| 5' | Opening and welcome, presentation of the frame of the session | Chairperson |
| 10' | Keynote speech: facts and figures to show the impact of the energy costs on water and specifically for agriculture – examples of poorly harmonized water and energy policies and their impact on sustainable development | 1 key-note speaker |
| 15' | Energy for water Agriculture policy: water, energy and food security nexus Conflicts between irrigation, hydropower and agro-fuels ; pricing Virtual water: a tool for decision-making | 2 speakers |
| 15' | Water for energy Energy security and water: the case of hydropower The case of agro-fuels (to be linked with session 2.3.3) Water and climate change: how to improve the energy efficiency of water industries? | 2 speakers |
| 15' | Strategic levels of water and energy policy integration Different stakeholders will be invited to express their own strategy at different levels: regional, basin, national and utilities. | 2 speakers |
| 60' | Panel discussion with the audience | Moderators |
| 15' | Break with intermezzo (video, ...) | |
| 10' | Draft formulation of recommendations | Consortium member |
| 30' | Discussion on the recommendations | Moderators |
| 5' | Conclusions | Chairperson |

Key stakeholders to invite to speak:

Wide participation from stakeholders is necessary from both sectors in order to include professional and users associations, private sector, governments, NGOs, basin, regional and local authorities and the academic community. The virtual meeting space allows such organizations to apply for a communication in the session until the 30th of September. The following table presents the type and names of organization which could usefully be involved.

| Type of organization | Name of organization |
|--|---|
| Associations of Farmers and Water Users, agro-fuel producers | ? |
| International Agencies | UNESCO-IHP, IHA, WEC |
| National Governments (Ministries of water, hydraulic and energy) | Pakistan Water and Power Development Authority? |
| Professional Associations | ICID |
| Research Institutions | Australian National University, Professor John Anthony Allan from King's College London |
| Multilateral donors | World Bank, AFDB, ADB |

| | |
|---------------------------------|-----------------------------------|
| Regional Economic Commission | SADC, CEDEAO |
| NGOs and local civil society. | WWF, SOS Futur |
| Related river basin authorities | ABN, OMVS? |
| Related local authorities | Mayors, water services executives |
| Private sector | Suez environment, Shell company? |

9. How will briefing paper be developed?

The preparation of this session will benefit of the conclusions of the international conference "Resolving the water and energy nexus" organized by UNESCO and the French ministry of sustainable development in Paris from 26 to 28 November 2008.

The coordinator of the session will follow the World Congress of the Water of Montpellier - France and will participate in the meeting of the consortium 2.3 which also handles to prepare the session on agro-fuels.

The group of coordination met during the World Week of the Water of in Stockholm in August and will meet again during the conference of UNESCO in Paris in November. Meanwhile a phone conference will be organized between the members of the session coordination group.

10. Full session proposal to be developed by September 12, using the following structure:

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|--------------------------------|---|
| Session Title | Water and energy security for all: how to build new integrated policies? |
| Broader Issue / Context | The rising cost of energy and the food crisis have recently been put on the front of the media scene all over the world. As energy and water are interrelated (we use energy for water and water for energy), the water sector will also be impacted. The global demographic increase, the urbanization and the economic development will necessitate, in the coming decades, a growing availability of water and energy. Energy and water availability are fundamental to reach all the MDG's but reserves of traditional energy are being exhausted, global change is menacing the availability of water and both sectors are often mismanaged. However, water as a renewable resource of energy, is essential for numerous countries. We must build new policies to tackle the major challenges of energy and water security for all. |
| Key Question(s) | <p><i>What are the conflicts in current policies?</i> Water and energy policies are rarely well coordinated and somehow appear to be in conflict. Growing crops for energy production requires land and water, agro-fuel is still controversial and its impacts on the water sector have not been explored significantly. Hydropower can have adverse impacts on water ecosystems when they are not designed and managed properly.</p> <p><i>What are the common drivers and solutions?</i> Better harmonization is required to set up conditions which optimize water and energy sustainable use, notably their pricing. These sectors should explore performance indicators and assessment tools to assist in strategic planning and decision making. Their impact on other sectors, agriculture and food in particular, should be taken into consideration. There is a great need for water infrastructure in the world for hydropower and storage. Investments need to make energy production sustainable for the environment and participate to water-related disaster and water scarcity mitigation.</p> <p><i>How can policy support community orientated initiatives?</i> It is important to create awareness for the water-energy nexus at all levels: local, national, regional, basin and international. Integrating the policies on water and energy at these different levels should aim to drive better choices on water and energy on the ground by individual communities.</p> |

| | |
|---|---|
| Session Development Description / Outline | <p>Opening and welcome, presentation of the frame of the session (chairperson)</p> <p>Keynote speech: facts and figures to show the impact of the energy costs on water and specifically for agriculture – examples of poorly harmonized water and energy policies and their impact on sustainable development</p> <p>Energy for water (2 speakers)</p> <p>Agriculture policy: water, energy and food security nexus Conflicts between irrigation, hydropower and agro-fuels - pricing Virtual water: a tool for decision-making</p> <p>Water for energy (2 speakers)</p> <p>Energy security and water: the case of hydropower The case of agro-fuels (to be linked with session 2.3.3) Water and climate change: how to improve the energy efficiency of water industries?</p> <p>Strategic levels of water and energy policy integration (2 speakers)</p> <p>Different stakeholders will be invited to express their own strategy at different levels: regional, basin, national and utilities.</p> <p>Panel discussion with the audience (2 moderators)</p> <p>Break with intermezzo (video, ...)</p> <p>Draft formulation of recommendations (consortium member)</p> <p>Discussion on the recommendations (2 moderators)</p> <p>Conclusions (chairperson)</p> |
| Organizations to be involved in session development | Wide participation from stakeholders is necessary from both sectors in order to include professional and users associations, private sector, governments, NGOs, basin, regional and local authorities and the academic community. |
| What is being bridged here? | Better integration of water and energy policies among key stakeholders at different levels of decision-making. |
| Next steps and timeline | <p>The preparation of this session will benefit of the conclusions of the international conference "Resolving the water and energy nexus" organized by UNESCO and the French ministry of sustainable development in Paris from 26 to 28 November 2008.</p> <p>The group of coordination met during the World Week of the Water of in Stockholm in August and will meet again during the conference of UNESCO in Paris in November.</p> <p>The coordinator of the session will follow the World Congress of the Water of Montpellier - France and will participate in the meeting of the consortium 2.3 which also handles to prepare the session on agro-fuels.</p> |
| Contact information for the coordination of this session | <p>Nathalie Chartier-Touzé, Executive Secretary of the French Water Partnership: nct.pfe@astee.org – tel : + 33 6 83 99 31 97</p> <p>or Jean-Paul Rivaud, Ministry of Sustainable Development: jean-paul.rivaud@developpement-durable.gouv.fr, tel: +33 1 42 19 12 07</p> |

By Sept 12, any speakers proposed have to have confirmed their interest and ability to participate in the session. The information from session proposals will be reflected in the final programme of the World Water Forum.